

APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P. O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 49:
SEQUENCE CHARACTERISTICS:
LENGTH: 309 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-49

Query Match 75.1%; Score 260; DB 3; Length 309;
Best Local Similarity 100.0%; Pred. No. 2.8e-124;
Matches 260; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 51 CCGGCCACAGGACGTTAAGTTCCAGGCGGCGGTACAGTCGTTGGTGAGTTTACGTGCT 110
Db 50 CCGGCCACAGGACGTTAAGTTCCAGGCGGCGGTACAGTCGTTGGTGAGTTTACGTGCT 109
Qy 111 ACCACGACGAGGCGGCCCCAGTTGGTGCGTGCGAGTGCAGCAAGACTTCCGAGCGGTGCGCA 170
Db 110 ACCACGACGAGGCGGCCCCAGTTGGTGCGTGCGAGTGCAGCAAGACTTCCGAGCGGTGCGCA 169
Qy 171 ACCTCGCAGTAGGCGCCACCCATCCCGAGGCGCGCGCAACCGAGGCGAGTCTCTGGGC 230
Db 170 ACCTCGCAGTAGGCGCCACCCATCCCGAGGCGCGCGCAACCGAGGCGAGTCTCTGGGC 229
Qy 231 TCAGCCGGGTACCTTGGCCCTTATATGGCAATGAGGCGTTCGGGTGGGCGAGGTGGCT 290
Db 230 TCAGCCGGGTACCTTGGCCCTTATATGGCAATGAGGCGTTCGGGTGGGCGAGGTGGCT 289
Qy 291 CCTGTCCCGCGCGGCTCTC 310
Db 290 CCTGTCCCGCGCGGCTCTC 309

RESULT 3
US-08-931-855B-13
Sequence 13, Application US/08931855B
Patent No. 6692751

GENERAL INFORMATION:
APPLICANT: ZEBEDEE, SUZANNE
APPLICANT: INCHAUSPE, GENEVIEVE
APPLICANT: NASOFF, MARC S.
APPLICANT: PRINCE, ALFRED M.
APPLICANT: HELTING, TORSTEN B.
APPLICANT: DEVIN, HAKAN
APPLICANT: NUNN, MICHAEL F.
TITLE OF INVENTION: METHODS AND SYSTEMS FOR PRODUCING
TITLE OF INVENTION: RECOMBINANT VIRAL ANTIGENS
NUMBER OF SEQUENCES: 29
CORRESPONDENCE ADDRESS:
ADDRESSEE: James P. Hillman
STREET: 45010 Pawnee Drive
CITY: Fremont
STATE: CA
COUNTRY: USA
ZIP: 94539
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 5.0 Dos Txt
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/931,855B
FILING DATE: Sep 16, 1997
CLASSIFICATION: 435
CLASSIFICATION: 435
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US08/563,733
FILING DATE: 8-NOV-1995
APPLICATION NUMBER: US08/049,531
FILING DATE: 20-APR-1993
APPLICATION NUMBER: US07/344,237
FILING DATE: 26-APR-1989
APPLICATION NUMBER: US07/191,229
FILING DATE: 06-MAY-1988
APPLICATION NUMBER: US07/206,499
FILING DATE: 13-JUN-1988
APPLICATION NUMBER: US07/258,016
FILING DATE: 14-OCT-1988
APPLICATION NUMBER: US08/272,271
FILING DATE: 8-JUL-1994
APPLICATION NUMBER: US07/616,369
FILING DATE: 21-NOV-1990
APPLICATION NUMBER: US07/573,643
FILING DATE: 27-AUG-1990
ATTORNEY/AGENT INFORMATION:
NAME: James P. Hillman Esq.
REGISTRATION NUMBER: 29748
REFERENCE/DOCKET NUMBER: 55467/69
TELECOMMUNICATION INFORMATION:
TELEPHONE: (510) 651 3991
TELEFAX: (510) 651 5991
TELEX:
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 378 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
HYPOTHETICAL: no
ANTI-SENSE: no
FEATURE:
NAME/KEY: CDS
LOCATION: 16-375
US-08-931-855B-13
Query Match 12.4%; Score 43; DB 4; Length 378;
Best Local Similarity 100.0%; Pred. No. 2.6e-12;

Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 212 CCGAGGGCAGGTCTCTGGGCTCAGCCGGGTACCCCTTGCCCT 254
|||||

Db 227 CCGAGGGCAGGTCTCTGGGCTCAGCCGGGTACCCCTTGCCCT 269
|||||

RESULT 4

US-08-441-971-60
; Sequence 60, Application US/08441971
; Patent No. 6071693
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,971
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/221,653
; FILING DATE:
; APPLICATION NUMBER: US/07/881,528
; FILING DATE:
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 60:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 549 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: nacs
US-08-441-971-60

Query Match 12.4%; Score 43; DB 3; Length 549;
Best Local Similarity 100.0%; Pred. No. 2.6e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 212 CCGAGGGCAGGTCTCTGGGCTCAGCCGGGTACCCCTTGCCCT 254
|||||

Db 212 CCGAGGGCAGGTCTCTGGGCTCAGCCGGGTACCCCTTGCCCT 254
|||||

RESULT 5

US-08-221-653-60
; Sequence 60, Application US/08221653
; Patent No. 6190864
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha

; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/221,653
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/881,528
; FILING DATE:
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 60:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 549 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: nacs
US-08-221-653-60

Query Match 12.4%; Score 43; DB 3; Length 549;
Best Local Similarity 100.0%; Pred. No. 2.6e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 212 CCGAGGGCAGGTCTCTGGGCTCAGCCGGGTACCCCTTGCCCT 254
|||||

Db 212 CCGAGGGCAGGTCTCTGGGCTCAGCCGGGTACCCCTTGCCCT 254
|||||

RESULT 6

US-08-442-144A-60
; Sequence 60, Application US/08442144A
; Patent No. 6214583
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; APPLICANT: Eileen Beall
; APPLICANT: Bruce Irvine
; APPLICANT: Janice Kolberg
; APPLICANT: Michael S. Urdea
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 148
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: USA
; ZIP: 94608-2916
; COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yanko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 60:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: nac5
US-08-442-144A-60

Query Match 12.4%; Score 43; DB 3; Length 549;
Best Local Similarity 100.0%; Pred. No. 2.6e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 212 CCGAGGCGAGGTCTCTGGGCTCAGCCGGGTACCCCTTGCCCT 254
Db 212 CCGAGGCGAGGTCTCTGGGCTCAGCCGGGTACCCCTTGCCCT 254

RESULT 7
US-08-441-970-60
Sequence 60, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 60:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: nac5
US-08-441-970-60

Query Match 12.4%; Score 43; DB 3; Length 549;
Best Local Similarity 100.0%; Pred. No. 2.6e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 212 CCGAGGCGAGGTCTCTGGGCTCAGCCGGGTACCCCTTGCCCT 254
Db 212 CCGAGGCGAGGTCTCTGGGCTCAGCCGGGTACCCCTTGCCCT 254

RESULT 8
US-08-290-665A-141
Sequence 141, Application US/08290665A
Patent No. 5882852
GENERAL INFORMATION:
APPLICANT: BURKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
AND THE USE OF REAGENTS DERIVED FROM THESE
SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 141:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORGANISM: hom sapiens
INDIVIDUAL ISOLATE: Z1
US-08-290-665A-141

Query Match 12.4%; Score 43; DB 2; Length 573;

Best Local Similarity 100.0%; Pred. No. 2.6e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 212 CCGAGGCGAGTCTGGGCTCAGCCGGGTACCTTGGCCCT 254
|||||

Db 212 CCGAGGCGAGTCTGGGCTCAGCCGGGTACCTTGGCCCT 254
|||||

RESULT 9

US-09-194-949A-5
; Sequence 5, Application US/09194949A
; Patent No. 6653125
; GENERAL INFORMATION:
; APPLICANT: Merck & Co., Inc.
; APPLICANT: Donnelly, John J.
; APPLICANT: Fu, Tong-Ming
; APPLICANT: Liu, Margaret A.
; APPLICANT: Shiver, John W.
; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
; FILE REFERENCE: 19732YP
; CURRENT APPLICATION NUMBER: US/09/194,949A
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: PCT/US97/09884
; PRIOR FILING DATE: 1997-06-06
; PRIOR APPLICATION NUMBER: 60/020,494
; PRIOR FILING DATE: 1996-06-11
; PRIOR APPLICATION NUMBER: 60/033,534
; PRIOR FILING DATE: 1996-12-20
; PRIOR APPLICATION NUMBER: 08/865,823
; PRIOR FILING DATE: 1997-05-30
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 573
; TYPE: DNA
; ORGANISM: Hepatitis C Virus
US-09-194-949A-5

Query Match 12.4%; Score 43; DB 4; Length 573;
Best Local Similarity 100.0%; Pred. No. 2.6e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 212 CCGAGGCGAGTCTGGGCTCAGCCGGGTACCTTGGCCCT 254
|||||

Db 212 CCGAGGCGAGTCTGGGCTCAGCCGGGTACCTTGGCCCT 254
|||||

RESULT 10

PCT-US95-10398-141
; Sequence 141, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BURK, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FENNEMAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398

FILING DATE: 15-AUG-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 141:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z1
PCT-US95-10398-141

Query Match 12.4%; Score 43; DB 5; Length 573;
Best Local Similarity 100.0%; Pred. No. 2.6e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 212 CCGAGGCGAGTCTGGGCTCAGCCGGGTACCTTGGCCCT 254
|||||

Db 212 CCGAGGCGAGTCTGGGCTCAGCCGGGTACCTTGGCCCT 254
|||||

RESULT 11

US-08-836-075A-65
; Sequence 65, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; TITLE OF INVENTION: AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.

REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 65:
SEQUENCE CHARACTERISTICS:
LENGTH: 831 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-65

Query Match 12.4%; Score 43; DB 3; Length 831;
Best Local Similarity 100.0%; Pred. No. 2.7e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGCCCT 254
Db 227 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGCCCT 269

RESULT 12
US-08-290-665A-142
Sequence 142, Application US/08290665A
Patent No. 5882852
GENERAL INFORMATION:
APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154

COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 142:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z5
US-08-290-665A-142

Query Match 11.6%; Score 40; DB 2; Length 573;
Best Local Similarity 100.0%; Pred. No. 9.3e-11;
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGCC 251
Db 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGCC 251

RESULT 13
PCT-US95-10398-142
Sequence 142, Application PC/TUS9510398
GENERAL INFORMATION:
APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 142:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z5
PCT-US95-10398-142

Query Match 11.6%; Score 40; DB 5; Length 573;
Best Local Similarity 100.0%; Pred. No. 9.3e-11;
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGCC 251
Db 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGCC 251

RESULT 14
US-08-290-665A-136
Sequence 136, Application US/08290665A
Patent No. 5882852
GENERAL INFORMATION:

APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154

COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 136:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: S52
US-08-290-665A-136

Query Match 11.0%; Score 38; DB 2; Length 573;
Best Local Similarity 100.0%; Pred. No. 1e-09;
Matches 38; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 262 AATGAGGGCTGCGGGTGGCGAGGGTGGCTCTCTGTCCCC 299
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Db 262 AATGAGGGCTGCGGGTGGCGAGGGTGGCTCTCTGTCCCC 299

RESULT 15
PCT-US95-10398-136
Sequence 136, Application PC/TUS9510398
GENERAL INFORMATION:
APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK

COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 136:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: S52
PCT-US95-10398-136

Query Match 11.0%; Score 38; DB 5; Length 573;
Best Local Similarity 100.0%; Pred. No. 1e-09;
Matches 38; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 262 AATGAGGGCTGCGGGTGGCGAGGGTGGCTCTCTGTCCCC 299
|||||
Db 262 AATGAGGGCTGCGGGTGGCGAGGGTGGCTCTCTGTCCCC 299

Search completed: July 26, 2005, 06:31:09
Job time : 130 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 26, 2005, 05:53:13 ; Search time 452 Seconds
(without alignments)
4949.851 Million cell updates/sec

Title: US-09-873-224B-147
Perfect score: 346
Sequence: 1 atgagcacactcttaaac.....aaatgaccccggcagga 346

Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 7277826 seqs, 3233139505 residues

Word size : 0
Total number of hits satisfying chosen parameters: 14555652

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Published Applications NA:*

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| 2: | /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq* |
| 3: | /cgn2_6/ptodata/2/pubpna/US05_NEW_PUB.seq* |
| 4: | /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq* |
| 5: | /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq* |
| 6: | /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq* |
| 7: | /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq* |
| 8: | /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq* |
| 9: | /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq* |
| 10: | /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq* |
| 11: | /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq* |
| 12: | /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq* |
| 13: | /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq* |
| 14: | /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq* |
| 15: | /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq* |
| 16: | /cgn2_6/ptodata/2/pubpna/US10D_PUBCOMB.seq* |
| 17: | /cgn2_6/ptodata/2/pubpna/US10E_PUBCOMB.seq* |
| 18: | /cgn2_6/ptodata/2/pubpna/US10F_PUBCOMB.seq* |
| 19: | /cgn2_6/ptodata/2/pubpna/US10G_PUBCOMB.seq* |
| 20: | /cgn2_6/ptodata/2/pubpna/US10H_PUBCOMB.seq* |
| 21: | /cgn2_6/ptodata/2/pubpna/US10I_PUBCOMB.seq* |
| 22: | /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq* |
| 23: | /cgn2_6/ptodata/2/pubpna/US11A_PUBCOMB.seq* |
| 24: | /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq* |
| 25: | /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq* |
| 26: | /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq* |

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|-------------------|
| 1 | 296 | 85.5 | 345 | 10 | US-09-873-224-147 |
| 2 | 296 | 85.5 | 346 | 10 | Sequence 147, App |
| 3 | 296 | 85.5 | 346 | 10 | Sequence 147, App |
| 4 | 260 | 75.1 | 309 | 9 | US-09-878-281-147 |
| 5 | 43 | 12.4 | 378 | 20 | Sequence 147, App |
| 6 | 43 | 12.4 | 378 | 20 | Sequence 49, Appl |
| 7 | 43 | 12.4 | 573 | 10 | US-10-677-956-13 |
| | | | | | Sequence 13, Appl |
| | | | | | Sequence 5, Appl |
| | | | | | Sequence 5, Appl |

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|----|----|------|------|----|-------------------|-------------------|
| 8 | 43 | 12.4 | 831 | 9 | US-09-851-138-65 | Sequence 65, Appl |
| 9 | 31 | 9.0 | 152 | 9 | US-09-921-397-39 | Sequence 39, Appl |
| 10 | 31 | 9.0 | 234 | 9 | US-09-921-397-41 | Sequence 41, Appl |
| 11 | 31 | 9.0 | 300 | 16 | US-10-071-867-16 | Sequence 16, Appl |
| 12 | 31 | 9.0 | 310 | 9 | US-09-921-397-114 | Sequence 114, App |
| 13 | 31 | 9.0 | 327 | 9 | US-09-851-138-1 | Sequence 1, Appl |
| 14 | 31 | 9.0 | 339 | 9 | US-09-921-397-115 | Sequence 115, App |
| 15 | 31 | 9.0 | 360 | 9 | US-09-306-780-3 | Sequence 3, Appl |
| 16 | 31 | 9.0 | 378 | 20 | US-10-677-956-7 | Sequence 7, Appl |
| 17 | 31 | 9.0 | 378 | 20 | US-10-677-956-7 | Sequence 9, Appl |
| 18 | 31 | 9.0 | 450 | 9 | US-09-306-780-5 | Sequence 5, Appl |
| 19 | 31 | 9.0 | 480 | 16 | US-10-071-867-15 | Sequence 15, Appl |
| 20 | 31 | 9.0 | 480 | 21 | US-10-664-038-11 | Sequence 11, Appl |
| 21 | 31 | 9.0 | 480 | 21 | US-10-664-038-12 | Sequence 12, Appl |
| 22 | 31 | 9.0 | 480 | 21 | US-10-664-038-13 | Sequence 13, Appl |
| 23 | 31 | 9.0 | 480 | 21 | US-10-664-038-14 | Sequence 14, Appl |
| 24 | 31 | 9.0 | 480 | 21 | US-10-664-038-15 | Sequence 15, Appl |
| 25 | 31 | 9.0 | 480 | 21 | US-10-664-038-16 | Sequence 16, Appl |
| 26 | 31 | 9.0 | 483 | 9 | US-09-306-780-7 | Sequence 7, Appl |
| 27 | 31 | 9.0 | 499 | 21 | US-10-664-038-2 | Sequence 2, Appl |
| 28 | 31 | 9.0 | 528 | 9 | US-09-306-780-19 | Sequence 19, Appl |
| 29 | 31 | 9.0 | 540 | 17 | US-10-150-283-2 | Sequence 2, Appl |
| 30 | 31 | 9.0 | 573 | 9 | US-09-306-780-9 | Sequence 9, Appl |
| 31 | 31 | 9.0 | 595 | 19 | US-10-601-020-1 | Sequence 1, Appl |
| 32 | 31 | 9.0 | 708 | 17 | US-10-365-620-57 | Sequence 57, Appl |
| 33 | 31 | 9.0 | 708 | 21 | US-10-912-969-59 | Sequence 59, Appl |
| 34 | 31 | 9.0 | 750 | 17 | US-10-365-620-53 | Sequence 53, Appl |
| 35 | 31 | 9.0 | 750 | 21 | US-10-912-969-55 | Sequence 55, Appl |
| 36 | 31 | 9.0 | 843 | 9 | US-09-306-780-11 | Sequence 11, Appl |
| 37 | 31 | 9.0 | 1380 | 17 | US-10-365-620-59 | Sequence 59, Appl |
| 38 | 31 | 9.0 | 1380 | 21 | US-10-912-969-61 | Sequence 61, Appl |
| 39 | 31 | 9.0 | 1380 | 21 | US-10-913-171-40 | Sequence 40, Appl |
| 40 | 31 | 9.0 | 1422 | 17 | US-10-365-620-55 | Sequence 55, Appl |
| 41 | 31 | 9.0 | 1422 | 21 | US-10-912-969-57 | Sequence 57, Appl |
| 42 | 31 | 9.0 | 1422 | 21 | US-10-913-171-38 | Sequence 38, Appl |
| 43 | 31 | 9.0 | 2025 | 17 | US-10-387-336-8 | Sequence 8, Appl |
| 44 | 31 | 9.0 | 2031 | 17 | US-10-387-336-7 | Sequence 7, Appl |
| 45 | 31 | 9.0 | 2433 | 9 | US-09-973-025-49 | Sequence 49, Appl |

ALIGNMENTS

RESULT 1
US-09-873-224-147
; Sequence 147, Application US/09873224
; Publication No. US20030064360A1
; GENERAL INFORMATION:
; APPLICANT: <Unknown>
; TITLE OF INVENTION: New sequences of hepatitis C virus
; genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; CORRESPONDENCE ADDRESS:
; STREET: Industripark Zwijnaarde 7, box 4
; CITY: Ghent
; COUNTRY: Belgium
; ZIP: B-9052
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/873,224
; FILING DATE: 05-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Innogenetics sa.
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 00 32 9 241 07 11

```
;
; TELEFAX: 00 32 9 241 07 99
;
; INFORMATION FOR SEQ ID NO: 147:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH: 345 base pairs
;     TYPE: nucleic acid
;     STRANDEDNESS: single
;     TOPOLOGY: linear
;   MOLECULE TYPE: cDNA
;   HYPOTHETICAL: NO
;   ANTI-SENSE: NO
;   FEATURE:
;     NAME/KEY: CDS
;     LOCATION: 1..345
;   FEATURE:
;     NAME/KEY: mat_peptide
;     LOCATION: 1..342
;   SEQUENCE DESCRIPTION: SEQ ID NO: 147:
US-09-873-224-147

Query Match      85.5%; Score 296; DB 10; Length 345;
Best Local Similarity 100.0%; Pred. No. 1.2e-146;
Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 51 CCGGCCACAGACGTTAAAGTTCCACAGCGCGGTCCAGATCGTTGGTGAGTTTACGTGCT 110
Db 50 CCGGCCACAGACGTTAAAGTTCCACAGCGCGGTCCAGATCGTTGGTGAGTTTACGTGCT 109
Qy 111 ACCACGACAGGCGCCCGCCAGTTGGGTGTCGTCAGTGCAGCAAGACTTCCGAGCGGTGCGCA 170
Db 110 ACCACGACAGGCGCCCGCCAGTTGGGTGTCGTCAGTGCAGCAAGACTTCCGAGCGGTGCGCA 169
Qy 171 ACCTCGAGTAGGCGCCCAACCATCCCGAGGGCGCGCAACCGAGGCGAGTCTCTGGGC 230
Db 170 ACCTCGAGTAGGCGCCCAACCATCCCGAGGGCGCGCAACCGAGGCGAGTCTCTGGGC 229
Qy 231 TCAGCCCGGGTACCCCTTATATGGGCTGCGGGTGGCGGTCGCGGTGGCGAGGTGGCT 290
Db 230 TCAGCCCGGGTACCCCTTATATGGGCTGCGGGTGGCGGTCGCGGTGGCGAGGTGGCT 289
Qy 291 CCTGTCCCGCGCGGCTCTCGCCCGTCTGCGGGGCCCAAAATGACCCCGCGCGCAGGA 346
Db 290 CCTGTCCCGCGCGGCTCTCGCCCGTCTGCGGGGCCCAAAATGACCCCGCGCGCAGGA 345

RESULT 2
US-09-899-046-147
; Sequence 147, Application US/09899046
; Publication No. US2003008274A1
; GENERAL INFORMATION:
;   APPLICANT:
;   TITLE OF INVENTION: New sequences of hepatitis C virus
;   TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
;   NUMBER OF SEQUENCES: 270
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE: Floppy disk
;     COMPUTER: IBM PC compatible
;     OPERATING SYSTEM: PC-DOS/MS-DOS
;     SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER: US/09/899,046
;     FILING DATE:
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER: 08/362,455
;       FILING DATE:
;   INFORMATION FOR SEQ ID NO: 147:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH: 345 base pairs
;       TYPE: nucleic acid
;       STRANDEDNESS: single
;       TOPOLOGY: linear
;     MOLECULE TYPE: cDNA
;     HYPOTHETICAL: NO
;     ANTI-SENSE: NO
;   FEATURE:
;     NAME/KEY: CDS
;     LOCATION: 1..345
;   FEATURE:
;     NAME/KEY: mat_peptide
;     LOCATION: 1..342
;   SEQUENCE DESCRIPTION: SEQ ID NO: 147:
US-09-899-046-147

Query Match      85.5%; Score 296; DB 10; Length 346;
Best Local Similarity 100.0%; Pred. No. 1.2e-146;
Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 51 CCGGCCACAGACGTTAAAGTTCCACAGCGCGGTCCAGATCGTTGGTGAGTTTACGTGCT 110
Db 51 CCGGCCACAGACGTTAAAGTTCCACAGCGCGGTCCAGATCGTTGGTGAGTTTACGTGCT 110
Qy 111 ACCACGACAGGCGCCCGCCAGTTGGGTGTCGTCAGTGCAGCAAGACTTCCGAGCGGTGCGCA 170
Db 111 ACCACGACAGGCGCCCGCCAGTTGGGTGTCGTCAGTGCAGCAAGACTTCCGAGCGGTGCGCA 170
Qy 171 ACCTCGAGTAGGCGCCCAACCATCCCGAGGGCGCGCAACCGAGGCGAGTCTCTGGGC 230
Db 171 ACCTCGAGTAGGCGCCCAACCATCCCGAGGGCGCGCAACCGAGGCGAGTCTCTGGGC 230
Qy 231 TCAGCCCGGGTACCCCTTATATGGGCTGCGGGTGGCGGTCGCGGTGGCGAGGTGGCT 290
Db 231 TCAGCCCGGGTACCCCTTATATGGGCTGCGGGTGGCGGTCGCGGTGGCGAGGTGGCT 290
Qy 291 CCTGTCCCGCGCGGCTCTCGCCCGTCTGCGGGGCCCAAAATGACCCCGCGCGCAGGA 346
Db 291 CCTGTCCCGCGCGGCTCTCGCCCGTCTGCGGGGCCCAAAATGACCCCGCGCGCAGGA 346

RESULT 3
US-09-878-281-147
; Sequence 147, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
;   APPLICANT:
;   TITLE OF INVENTION: New sequences of hepatitis C virus
;   TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
;   NUMBER OF SEQUENCES: 270
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE: Floppy disk
;     COMPUTER: IBM PC compatible
;     OPERATING SYSTEM: PC-DOS/MS-DOS
;     SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER: US/09/878,281
;     FILING DATE:
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER: 08/362,455
;       FILING DATE:
;   INFORMATION FOR SEQ ID NO: 147:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH: 346 base pairs
;       TYPE: nucleic acid
;       STRANDEDNESS: single
;       TOPOLOGY: linear
;     MOLECULE TYPE: cDNA
;     HYPOTHETICAL: NO
;     ANTI-SENSE: NO
;   FEATURE:
;     NAME/KEY: CDS
;     LOCATION: 1..346
;   FEATURE:
;     NAME/KEY: mat_peptide
;     LOCATION: 1..342
;   SEQUENCE DESCRIPTION: SEQ ID NO: 147:
US-09-878-281-147

Query Match      85.5%; Score 296; DB 10; Length 346;
Best Local Similarity 100.0%; Pred. No. 1.2e-146;
Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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; APPLICATION NUMBER: US07/573,643
; FILING DATE: 27-AUG-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: James P. Hillman Esq.
; REGISTRATION NUMBER: 29748
; REFERENCE/DOCKET NUMBER: 55467/69
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 651 3991
; TELEFAX: (510) 651 5991
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 378 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Genomic DNA
; HYPOTHETICAL: no
; ANTI-SENSE: no
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 16-375
; SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-10-677-956-13

Query Match 12.4%; Score 43; DB 20; Length 378;
Best Local Similarity 100.0%; Pred. No. 2.2e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGCCCCCT 254
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Db 227 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGCCCCCT 269
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RESULT 6

US-09-194-949-5
; Sequence 5, Application US/09194949
; Publication No. US20030053987A1
; GENERAL INFORMATION:
; APPLICANT: Merck & Co., Inc.
; APPLICANT: Donnelly, John J.
; APPLICANT: Fu, Tong-Ming
; APPLICANT: Liu, Margaret A.
; APPLICANT: Shiver, John W.
; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
; FILE REFERENCE: 19732YP
; CURRENT APPLICATION NUMBER: US/09/194,949
; CURRENT FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: PCT/US97/09884
; PRIOR FILING DATE: 1997-06-06
; PRIOR APPLICATION NUMBER: 60/020,494
; PRIOR FILING DATE: 1996-06-11
; PRIOR APPLICATION NUMBER: 60/033,534
; PRIOR FILING DATE: 1996-12-20
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 573
; TYPE: DNA
; ORGANISM: Hepatitis C Virus
US-09-194-949-5

Query Match 12.4%; Score 43; DB 10; Length 573;
Best Local Similarity 100.0%; Pred. No. 2.1e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGCCCCCT 254
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Db 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGCCCCCT 254
|||||

RESULT 7

US-10-664-391-5

; Sequence 5, Application US/10664391
; Publication No. US20050074752A1
; GENERAL INFORMATION:
; APPLICANT: Donnelly, John J.
; APPLICANT: Liu, Margaret A.
; APPLICANT: Shiver, John W.
; APPLICANT: Fu, Tong-Ming
; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
; FILE REFERENCE: 19732YPCA
; CURRENT APPLICATION NUMBER: US/10/664,391
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/US97/09884
; PRIOR FILING DATE: 1997-06-06
; PRIOR APPLICATION NUMBER: 60/033,534
; PRIOR FILING DATE: 1996-12-20
; PRIOR APPLICATION NUMBER: 60/020,494
; PRIOR FILING DATE: 1996-06-11
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 573
; TYPE: DNA
; ORGANISM: Hepatitis C Virus
US-10-664-391-5

Query Match 12.4%; Score 43; DB 21; Length 573;
Best Local Similarity 100.0%; Pred. No. 2.1e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGCCCCCT 254
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Db 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGCCCCCT 254
|||||

RESULT 8

US-09-851-138-65
; Sequence 65, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 65:
; SEQUENCE CHARACTERISTICS:

LENGTH: 831 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
SEQUENCE DESCRIPTION: SEQ ID NO: 65:

US-09-851-138-65

Query Match 12.4%; Score 43; DB 9; Length 831;
Best Local Similarity 100.0%; Pred. No. 2e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 212 CCGAGGCGAGTCTCGGCTCAGCCCGGGTACCCCTTGGCCCT 254

Db 227 CCGAGGCGAGTCTCGGCTCAGCCCGGGTACCCCTTGGCCCT 269

RESULT 9

US-09-921-397-39
Sequence 39, Application US/09921397
Patent No. US20020151484A1
GENERAL INFORMATION:

APPLICANT: HYBRIGENICS
TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a
TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
TITLE OF INVENTION: applications thereof
FILE REFERENCE: B4809A - JAZ
CURRENT APPLICATION NUMBER: US/09/921,397
CURRENT FILING DATE: 2001-08-02
PRIOR APPLICATION NUMBER: EP 00402225.7
PRIOR FILING DATE: 2000-08-03
NUMBER OF SEQ ID NOS: 156
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 39

LENGTH: 152
TYPE: DNA
ORGANISM: Hepatitis C virus
US-09-921-397-39

Query Match 9.0%; Score 31; DB 9; Length 152;
Best Local Similarity 100.0%; Pred. No. 5.6e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 224 CTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254

Db 120 CTGGGCTCAGCCCGGGTACCCCTTGGCCCT 150

RESULT 10

US-09-921-397-41
Sequence 41, Application US/09921397
Patent No. US20020151484A1
GENERAL INFORMATION:

APPLICANT: HYBRIGENICS
TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a
TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
TITLE OF INVENTION: applications thereof
FILE REFERENCE: B4809A - JAZ
CURRENT APPLICATION NUMBER: US/09/921,397
CURRENT FILING DATE: 2001-08-02
PRIOR APPLICATION NUMBER: EP 00402225.7
PRIOR FILING DATE: 2000-08-03
NUMBER OF SEQ ID NOS: 156
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 41

LENGTH: 234
TYPE: DNA
ORGANISM: Hepatitis C virus
US-09-921-397-41

Query Match 9.0%; Score 31; DB 9; Length 234;

Best Local Similarity 100.0%; Pred. No. 5.4e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 224 CTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254

Db 186 CTGGGCTCAGCCCGGGTACCCCTTGGCCCT 216

RESULT 11

US-10-071-867-16
Sequence 16, Application US/10071867
Publication No. US20030166267A1
GENERAL INFORMATION:

APPLICANT: Creagene Inc.
TITLE OF INVENTION: METHOD FOR IMPROVING GENETIC STABILITY OF FOREIGN INSERT
TITLE OF INVENTION: NUCLEOTIDE SEQUENCE IN RECOMBINANT SINGLE-STRANDED RNA VIRUS
FILE REFERENCE: Creagene-USA-1
CURRENT APPLICATION NUMBER: US/10/071,867
CURRENT FILING DATE: 2002-02-08
PRIOR APPLICATION NUMBER: KR 2001-6229
PRIOR FILING DATE: 2001-02-08
NUMBER OF SEQ ID NOS: 95
SOFTWARE: KopatentIn 1.71
SEQ ID NO 16

LENGTH: 300
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: HCV core-100
US-10-071-867-16

Query Match 9.0%; Score 31; DB 16; Length 300;
Best Local Similarity 100.0%; Pred. No. 5.2e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 224 CTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254

Db 224 CTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254

RESULT 12

US-09-921-397-114
Sequence 114, Application US/09921397
Patent No. US20020151484A1
GENERAL INFORMATION:

APPLICANT: HYBRIGENICS
TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a
TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
TITLE OF INVENTION: applications thereof
FILE REFERENCE: B4809A - JAZ
CURRENT APPLICATION NUMBER: US/09/921,397
CURRENT FILING DATE: 2001-08-02
PRIOR APPLICATION NUMBER: EP 00402225.7
PRIOR FILING DATE: 2000-08-03
NUMBER OF SEQ ID NOS: 156
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 114

LENGTH: 310
TYPE: DNA
ORGANISM: Hepatitis C virus
US-09-921-397-114

Query Match 9.0%; Score 31; DB 9; Length 310;
Best Local Similarity 100.0%; Pred. No. 5.2e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 224 CTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254

Db 264 CTGGGCTCAGCCCGGGTACCCCTTGGCCCT 294

RESULT 13

US-09-851-138-1

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; Sequence 1, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
;           STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
;           AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
;           AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 327 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-851-138-1

Query Match          9.0%; Score 31; DB 9; Length 327;
Best Local Similarity 100.0%; Pred. No. 5.2e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 212 CCGAGGGCAGGCTCTGGGCTCAGCCCGGTA 242
Db 212 CCGAGGGCAGGCTCTGGGCTCAGCCCGGTA 242

RESULT 14
US-09-921-397-115
; Sequence 115, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; TITLE OF INVENTION: STD nucleic acids and polypeptides selected from a
;           pathogenic strain of the hepatitis C virus and
;           applications thereof
; FILE REFERENCE: B4809A - JAZ
; CURRENT APPLICATION NUMBER: US/09/921,397
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: EP 00402225.7
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 115
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; LENGTH: 339
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-921-397-115

Query Match          9.0%; Score 31; DB 9; Length 339;
Best Local Similarity 100.0%; Pred. No. 5.2e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 224 CCTGGGCTCAGCCCGGTACCTTGGGCCCT 254
Db 224 CCTGGGCTCAGCCCGGTACCTTGGGCCCT 254

RESULT 15
US-09-306-780-3
; Sequence 3, Application US/09306780
; Publication No. US20010051336A1
; GENERAL INFORMATION:
; APPLICANT: TAKEMURA, FUMINORI
;           UENO, EIICHI
;           ITOH, SATORU
; TITLE OF INVENTION: NUCLEIC ACID-BOUND POLYPEPTIDE, METHOD
;           OF PRODUCING NUCLEIC ACID-BOUND POLYPEPTIDE AND
;           IMMUNOASSAY USING THE POLYPEPTIDE.
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
;           P.C.
; STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400
; CITY: ARLINGTON
; STATE: VA
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/306,780
; FILING DATE: 07-May-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/841,657A
; FILING DATE: 30-APR-1997
; APPLICATION NUMBER: JP 8-134444
; FILING DATE: 01-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: OBLON, NORMAN F.
; REGISTRATION NUMBER: 24,618
; REFERENCE/DOCKET NUMBER: 2084-033-0
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 413-3000
; TELEFAX: (703) 413-2220
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 360 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "synthetic DNA"
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..360
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-306-780-3

Query Match          9.0%; Score 31; DB 9; Length 360;
Best Local Similarity 100.0%; Pred. No. 5.2e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 224 CCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254
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Db 224 CCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254
|||

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Job time : 453 secs

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GenCore version 5.1.6
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OM nucleic - protein search, using frame_plus_n2p model

Run on: July 26, 2005, 07:33:08 ; Search time 18 Seconds
(without alignments)
2869.842 Million cell updates/sec

Title: US-09-873-224B-147

Perfect score: 114
Sequence: 1 atgagcacacttccttaacc.....aaatgaccccgccgacgga 346

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Ygapop 60.0, Ygapext 60.0
Fgapop 6.0, Fgapext 7.0
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Searched: 513545 seqs, 74649064 residues

Word size: 1

Total number of hits satisfying chosen parameters: 903960

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Maximum DB seq length: 200000000

Post-processing: listing first 45 summaries

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-FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database :

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6: /cg2_6/prodata/1/1aa/backfill1.pcp:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------------------------|
| 1 | 114 | 100.0 | 115 | 3 | US-08-836-075A-50 Sequence 50, Appl |
| 2 | 99 | 86.8 | 100 | 4 | US-08-635-886C-233 Sequence 233, App |
| 3 | 99 | 86.8 | 100 | 4 | US-08-974-690C-233 Sequence 233, App |
| 4 | 98 | 86.0 | 115 | 4 | US-09-878-281A-148 Sequence 148, App |
| 5 | 44 | 38.6 | 124 | 1 | US-08-244-116B-15 Sequence 15, Appl |
| 6 | 44 | 38.6 | 166 | 4 | US-09-878-281A-154 Sequence 164, App |
| 7 | 44 | 38.6 | 191 | 2 | US-08-290-665A-187 Sequence 187, App |
| 8 | 44 | 38.6 | 191 | 2 | US-08-290-665A-188 Sequence 188, App |
| 9 | 44 | 38.6 | 191 | 2 | US-08-290-665A-189 Sequence 189, App |
| 10 | 44 | 38.6 | 191 | 2 | US-08-290-665A-190 Sequence 190, App |
| 11 | 44 | 38.6 | 191 | 2 | US-08-290-665A-191 Sequence 191, App |
| 12 | 44 | 38.6 | 191 | 2 | US-08-290-665A-192 Sequence 192, App |

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|----|----|------|-----|---|--------------------------------------|
| 13 | 44 | 38.6 | 191 | 2 | US-08-290-665A-193 Sequence 193, App |
| 14 | 44 | 38.6 | 191 | 2 | US-08-290-665A-195 Sequence 195, App |
| 15 | 44 | 38.6 | 191 | 2 | US-08-290-665A-196 Sequence 196, App |
| 16 | 44 | 38.6 | 191 | 2 | US-08-290-665A-197 Sequence 197, App |
| 17 | 44 | 38.6 | 191 | 2 | US-08-290-665A-197 Sequence 187, App |
| 18 | 44 | 38.6 | 191 | 5 | PCT-US95-10398-187 Sequence 187, App |
| 19 | 44 | 38.6 | 191 | 5 | PCT-US95-10398-188 Sequence 188, App |
| 20 | 44 | 38.6 | 191 | 5 | PCT-US95-10398-189 Sequence 189, App |
| 21 | 44 | 38.6 | 191 | 5 | PCT-US95-10398-190 Sequence 190, App |
| 22 | 44 | 38.6 | 191 | 5 | PCT-US95-10398-191 Sequence 191, App |
| 23 | 44 | 38.6 | 191 | 5 | PCT-US95-10398-192 Sequence 192, App |
| 24 | 44 | 38.6 | 191 | 5 | PCT-US95-10398-193 Sequence 193, App |
| 25 | 44 | 38.6 | 191 | 5 | PCT-US95-10398-195 Sequence 195, App |
| 26 | 44 | 38.6 | 191 | 5 | PCT-US95-10398-196 Sequence 196, App |
| 27 | 44 | 38.6 | 191 | 5 | PCT-US95-10398-197 Sequence 197, App |
| 28 | 44 | 38.6 | 319 | 4 | US-08-635-886C-219 Sequence 219, App |
| 29 | 44 | 38.6 | 319 | 4 | US-08-974-690C-217 Sequence 217, App |
| 30 | 44 | 38.6 | 319 | 4 | US-08-974-690C-219 Sequence 219, App |
| 31 | 38 | 33.3 | 120 | 4 | US-08-931-855B-14 Sequence 14, Appl |
| 32 | 37 | 32.5 | 191 | 2 | US-08-290-665A-194 Sequence 194, App |
| 33 | 37 | 32.5 | 191 | 5 | PCT-US95-10398-194 Sequence 194, App |
| 34 | 36 | 31.6 | 166 | 4 | US-09-878-281A-194 Sequence 194, App |
| 35 | 34 | 29.8 | 42 | 3 | US-08-380-160-10 Sequence 10, Appl |
| 36 | 34 | 29.8 | 46 | 1 | US-08-262-037-27 Sequence 27, Appl |
| 37 | 34 | 29.8 | 56 | 1 | US-08-262-037-28 Sequence 28, Appl |
| 38 | 34 | 29.8 | 61 | 1 | US-08-262-037-29 Sequence 29, Appl |
| 39 | 34 | 29.8 | 89 | 2 | US-07-681-703B-24 Sequence 24, Appl |
| 40 | 34 | 29.8 | 89 | 2 | US-08-407-410B-24 Sequence 24, Appl |
| 41 | 34 | 29.8 | 89 | 2 | US-08-485-500-24 Sequence 24, Appl |
| 42 | 34 | 29.8 | 89 | 5 | PCT-US91-02370-24 Sequence 24, Appl |
| 43 | 34 | 29.8 | 119 | 1 | US-07-681-703B-18 Sequence 18, Appl |
| 44 | 34 | 29.8 | 119 | 2 | US-08-407-410B-18 Sequence 18, Appl |
| 45 | 34 | 29.8 | 119 | 2 | US-08-485-500-18 Sequence 18, Appl |

ALIGNMENTS

RESULT 1
US-08-836-075A-50
; Sequence 50, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GERT
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P. O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:

```
NAME: KAMERER, PATRICIA A.
REGISTRATION NUMBER: 29, 775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 50:
SEQUENCE CHARACTERISTICS:
LENGTH: 115 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-836-075A-50

Alignment Scores:
Pred. No.: 2,17e-98 Length: 115
Score: 114.00 Matches: 115
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
Gaps: 0

US-09-873-224B-147 (1-346) x US-08-836-075A-50 (1-115)

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Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn**ArgProGln 20
QY 61 GACGTTAAGTTCACAGGCGGCGGTGAGATCGTTGGTGGATTACGTCTACACGACGAG 120
Db 21 AspValLysPheProGlyGlyGlyGlnLeuValGlyValValLeuProArgArg 40
QY 121 GGGCCCAAGTTGGGTGTGTGCGTGCAGTGCACAGACTTCGAGCGGTGCGAACCTTGCAGT 180
Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGlnArgSerGlnProArgSer 60
QY 181 AGCGCCCAACCATCCCAAGGCGCGCCGACCAACCGAGGAGGTCTCTGGGCTTACGCCCGG 240
Db 61 ArgArgGlnProIlePheArgAlaArgArgLysGlnGlyArgSerTyrPalaGlnProGly 80
QY 241 TACCTTGGCCCCCTATATGGAATGAGGCGTGGGGTGGGCGAGGTGCTCTGTCGCCCG 300
Db 81 TyrProTyrProLeuTyrGlyAsnGlnGlyCysGlyTyrPalaGlyTyrLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCCGCTGTGGGCGCAATGACCCCGCGCGCAG 345
Db 101 ArgGlySerArgProSerTyrPalaGlnProArgArgArg 115

RESULT 2
US-08-635-886C-233
Sequence 233, Application US/08635886C
Patent No. 6555114
GENERAL INFORMATION:
APPLICANT: LEROUX-ROELS, Geert
APPLICANT: DELEYS, Robert
APPLICANT: MAERTENS, Geert
TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
FILE REFERENCE: 2752-18
CURRENT APPLICATION NUMBER: US/08/635, 886C
PRIOR FILING DATE: 1996-04-25
PRIOR APPLICATION NUMBER: PCT/EP94/03555
PRIOR FILING DATE: 1994-10-28
PRIOR APPLICATION NUMBER: EP 93402718.6
NUMBER OF SEQ ID NOS: 286
SOFTWARE: PatentIn version 3.1
SEQ ID NO 233
LENGTH: 100
TYPE: PRT
ORGANISM: hepatitis C virus
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (17)..(17)
OTHER INFORMATION: Xaa is any amino acid
US-08-635-886C-233
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Alignment Scores:
Pred. No.: 2,36e-84 Length: 100
Score: 99.00 Matches: 100
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 86.84% Indels: 0
Gaps: 0

US-09-873-224B-147 (1-346) x US-08-635-886C-233 (1-100)

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Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn**ArgProGln 20
QY 61 GACGTTAAGTTCACAGGCGGCGGTGAGATCGTTGGTGGATTACGTCTACACGACGAG 120
Db 21 AspValLysPheProGlyGlyGlyGlnLeuValGlyValValLeuProArgArg 40
QY 121 GGGCCCAAGTTGGGTGTGTGCGTGCAGTGCACAGACTTCGAGCGGTGCGAACCTTGCAGT 180
Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGlnArgSerGlnProArgSer 60
QY 181 AGCGCCCAACCATCCCAAGGCGCGCCGACCAACCGAGGAGGTCTCTGGGCTTACGCCCGG 240
Db 61 ArgArgGlnProIlePheArgAlaArgArgLysGlnGlyArgSerTyrPalaGlnProGly 80
QY 241 TACCTTGGCCCCCTATATGGAATGAGGCGTGGGGTGGGCGAGGTGCTCTGTCGCCCG 300
Db 81 TyrProTyrProLeuTyrGlyAsnGlnGlyCysGlyTyrPalaGlyTyrLeuLeuSerPro 100

RESULT 3
US-08-974-690C-233
Sequence 233, Application US/08974690C
Patent No. 6613333
GENERAL INFORMATION:
APPLICANT: LEROUX-ROELS, Geert
APPLICANT: DELEYS, Robert
APPLICANT: MAERTENS, Geert
TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
FILE REFERENCE: 2551-94
CURRENT APPLICATION NUMBER: US/08/974, 690C
PRIOR FILING DATE: 1997-11-19
PRIOR APPLICATION NUMBER: PCT/EP94/03555
PRIOR FILING DATE: 1994-10-28
PRIOR APPLICATION NUMBER: EP 93402718.6
NUMBER OF SEQ ID NOS: 286
SOFTWARE: PatentIn version 3.1
SEQ ID NO 233
LENGTH: 100
TYPE: PRT
ORGANISM: hepatitis C virus
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (17)..(17)
OTHER INFORMATION: Xaa is any amino acid
US-08-974-690C-233

Alignment Scores:
Pred. No.: 2,36e-84 Length: 100
Score: 99.00 Matches: 100
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 86.84% Indels: 0
Gaps: 0

US-09-873-224B-147 (1-346) x US-08-974-690C-233 (1-100)

QY 1 ATGACACACTTCTTAACCAAGAAACCAAGAAACCAACACNCCGGCCAGAG 60
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn**ArgProGln 20
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QY 61 GACGTTAGTCCAGGCGGCGGTGATCGTTGGAGTTAGTGTACGACGAGG 120
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Db 21 Aspvallvsnepheprogllygllyglnilevalglyvaltyvalleuoproarg 40
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|
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QY 121 GGGCCCGAGTTGGTGGTGCAGTGCAGACACTTCCGACGGGTGCGACCTCGAGT 180
|
|
|
Db 41 Glyproginleuclyvalargvalargvalargvalargvalargvalargvalarg 60
|
|
|
QY 181 AGGCGCGAACCCATCCCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 240
|
|
|
Db 61 Argargginproilaprolargvalargvalargvalargvalargvalargvalarg 80
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|
|
QY 241 TACCTTGGCCCTTATGCGGAGTATGAGGCGGCGGCGGCGGCGGCGGCGGCGG 300
|
|
|
Db 81 Tyrprotrproleuylrglyangllygyltyrpalaglytyrleuenserpro 100

RESULT 4
US-09-878-281A-148
; Sequence 148, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 148
; LENGTH: 115
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-09-878-281A-148

Alignment Scores:
Pred. No.: 1,99e-83 Length: 115
Score: 98.00 Matches: 98
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 85.96% Indels: 0
DB: 4 Gaps: 0

US-09-873-224B-147 (1-346) x US-09-878-281A-148 (1-115)
QY 53 GGCACAGAGCGTTAGTCCAGGCGGCGGTGATCGTTAGTGTACGCTAC 112
|
|
|
Db 18 Glyhlsarvthleuserserglnalalvalargserleuvalgluethrtyr 37
|
|
|
QY 113 CACGCGAGGCGCCCGAGTGGTGTGCGTGCAGTGCAGACACTTCCGACGGGTGCAAC 172
|
|
|
Db 38 Hlsalaglvalaprosertprvalcysvalglnlcysalargleuproserglyargasn 57
|
|
|
QY 173 CTGCGAGTGGCGCCCAACCATCCCGAGGCGGCGGCGGCGGCGGCGGCGGCGG 232
|
|
|
Db 58 Lsuhlalvalaglvalasnproserprogllyargvalagluproarglagltyrprogllyleu 77
|
|
|
QY 233 AGCGCGGATACCTTGGCGCCCTATATGGAATGAGGCGGCGGCGGCGGCGGCGG 292
|
|
|
Db 78 Serproglythreulglyprotyrmeaglymeaglyalagllyglngllyser 97
|
|
|
QY 293 TGTCCCGCGCGGCTCTCGCCCGTGTGCGGCGGCGGCGGCGGCGGCGGCGG 346
|
|
|
Db 98 Cysproarglalaalaalaalaargaglyalaglmerthrprogllyagly 115

RESULT 5
US-08-244-116B-15
; Sequence 15, Application US/08244116B
; Patent No. 5763159
; GENERAL INFORMATION:
; APPLICANT: Simmonds, Peter
; APPLICANT: Chan, Shiu-Man
```

```
APPLICANT: Yap, Peng L.
TITLE OF INVENTION: Hepatitis-C Virus Testing
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSER: Bell, Seltzer, Park & Gibson, P.A.
STREET: 1211 East Morehead Street
CITY: Charlotte
STATE: No. 5763159th Carolina
COUNTRY: United States
ZIP: 28234
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0. Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/244,116B
FILING DATE: 15-JUL-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB92/02143
FILING DATE: 20-NOV-1992
ATTORNEY/AGENT INFORMATION:
NAME: Sibley, Kenneth D.
REGISTRATION NUMBER: 31,665
REFERENCE/DOCKET NUMBER: 1749-125
TELECOMMUNICATION INFORMATION:
TELEPHONE: 704-377-1561
TELEFAX: 704-334-2014
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 124 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: yes
FRAGMENT TYPE: internal
ORIGINAL SOURCE:
ORGANISM: Hepatitis-C virus
US-08-244-116B-15

Alignment Scores:
Pred. No.: 6,21e-33 Length: 124
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 1 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-244-116B-15 (1-124)
QY 214 GAGGCGAGGTCTCTGGGCTCAGGCGGCGTACCTTGGCGCCCTATATGGAATGAGGCGCTGC 273
|
|
|
Db 68 Gluglyargsertrpalaqlnproglytyrprotrproleuylrglyasnlucllycys 87
|
|
|
QY 274 GGGTGGCGAGGAGTGTCTCTGTGCGGCGGCGGCTCTGCGGCGGCGGCGGCGG 333
|
|
|
Db 88 Glytrpalaqllytrpaleuenserproargglyserargprosertrpalelyproasnsp 107
|
|
|
QY 334 CCGCGCGCGAGG 345
|
|
|
Db 108 Proargargarg 111

RESULT 6
US-09-878-281A-164
; Sequence 164, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
```

```

1 STRANDEDNESS: unknown
2 TOPOLOGY: unknown
3 ORIGINAL SOURCE:
4 ORGANISM: Homosapiens
5 INDIVIDUAL ISOLATE: HK10
6 US-08-290-665A-187
7
8 Alignment Scores:
9 Pred. No.: 5 84e-33 Length: 191
10 Score: 44.00 Matches: 44
11 Percent Similarity: 100.00% Conservative: 0
12 Best Local Similarity: 100.00% Mismatches: 0
13 Query Match: 38.60% Indels: 0
14 DB: 2 Gaps: 0
15
16 US-09-873-224B-147 (1-346) x US-08-290-665A-187 (1-191)
17
18 QY 214 GAGGGCAGGTCTCGGCTCAGCCCGGAGTACCTTGCCCCCTATATGAGGCTGC 273
19 |||||
20 Db 72 GIUGLYARGSerTrrPalaglnProIlyTrProtrProIeuIyrgLYaenGLUGLYCys 91
21
22 QY 274 GGGTGGGCGAGGTGCTCTGTCCCGCGGCGCTCTGCCTGTGTGGGGCCCAATGAC 333
23 |||||
24 Db 92 GLYTrrPalagLYrrPleuIeuSerProArgIySerArProSerTrrgIyProAnaSp 111
25
26 QY 334 CCCCCGGCGCAGG 345
27 |||||
28 Db 112 ProArgArgArg 115
29
30 RESULT 8
31 US-08-290-665A-188
32 Sequence 188, Application US/08290665A
33 Patent No. 5882852
34 GENERAL INFORMATION:
35 APPLICANT: BURKH, J., MILLER, R.H. AND
36 APPLICANT: PURCELL, R.H.
37 TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
38 TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
39 TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
40 TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
41 TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
42 NUMBER OF SEQUENCES: 263
43 CORRESPONDENCE ADDRESS:
44 ADDRESSEE: MORGAN & FINNEGAN
45 STREET: 345 PARK AVENUE
46 CITY: NEW YORK
47 STATE: NEW YORK
48 COUNTRY: USA
49 ZIP: 10154
50
51 COMPUTER READABLE FORM:
52 MEDIUM TYPE: FLOPPY DISK
53 COMPUTER: IBM PC COMPATIBLE
54 OPERATING SYSTEM: PC-DOS/MS-DOS
55 SOFTWARE: WORDPERFECT 5.1
56 CURRENT APPLICATION DATA:
57 APPLICATION NUMBER: US/08/290,665A
58 FILING DATE: 15-AUG-1994
59 CLASSIFICATION: 435
60 ATTORNEY/AGENT INFORMATION:
61 NAME: RICHARD W. BORK
62 REGISTRATION NUMBER: 36,459
63 REFERENCE/DOCKET NUMBER: 2026-4116
64 TELECOMMUNICATION INFORMATION:
65 TELEPHONE: (212) 758-4800
66 TELEFAX: (212) 751-6849
67
68 TELEX: 421792
69 INFORMATION FOR SEQ ID NO: 188:
70 SEQUENCE CHARACTERISTICS:
71 LENGTH: 191 amino acids
72 TYPE: amino acid
73 STRANDEDNESS: unknown
74 TOPOLOGY: unknown
75 ORIGINAL SOURCE:

```

ORGANISM: homosapiens
INDIVIDUAL ISOLATE: S52
US-08-290-665A-188

Alignment Scores:

| Pred. No.: | 5,84e-33 | Length: | 191 |
|------------------------|----------|---------------|-----|
| Score: | 44.00 | Matches: | 44 |
| Percent Similarity: | 100.00% | Conservative: | 0 |
| Best Local Similarity: | 100.00% | Mismatches: | 0 |
| Query Match: | 38.60% | Indels: | 0 |
| DB: | 2 | Gaps: | 0 |

US-09-873-224B-147 (1-346) X US-08-290-665A-188 (1-191)

QY 214 GAGGCGAGGTCCTGGGCTCAGCCCGGGTACCTTGCCCTTATGGAATGAGGCTGC 273
|||
DB 72 GIUGIYAGSertrpAlaGlnProGlyTyrProtrpProLeuTyrGlyAsnGluGlyCys 91

QY 274 GGGTGGGCGAGGTCCTGCTGTCCCGCGGCGCTCGCCGCGTGGGGCCCAATGAC 333
|||
DB 92 GYTPAlaGlyTrrpLeuSerProArGlySerArGProSertrpGlyProAsnAsp 111

QY 334 CCGCGCGCGAGG 345
|||
DB 112 ProArGArGArG 115

RESULT 9
US-08-290-665A-189
Sequence 189, Application US/08290665A
Patent No. 5882852

GENERAL INFORMATION:
APPLICANT: BURKH, J., MILLER, R.H. AND
APPLICANT: PORCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154

COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 751-6849
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 189:
SEQUENCE CHARACTERISTICS:
LENGTH: 191 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: S2
US-08-290-665A-189

Alignment Scores:

| Pred. No.: | 5,84e-33 | Length: | 191 |
|------------------------|----------|---------------|-----|
| Score: | 44.00 | Matches: | 44 |
| Percent Similarity: | 100.00% | Conservative: | 0 |
| Best Local Similarity: | 100.00% | Mismatches: | 0 |
| Query Match: | 38.60% | Indels: | 0 |
| DB: | 2 | Gaps: | 0 |

US-09-873-224B-147 (1-346) X US-08-290-665A-189 (1-191)

QY 214 GAGGCGAGGTCCTGGGCTCAGCCCGGGTACCTTGCCCTTATGGAATGAGGCTGC 273
|||
DB 72 GIUGIYAGSertrpAlaGlnProGlyTyrProtrpProLeuTyrGlyAsnGluGlyCys 91

QY 274 GGGTGGGCGAGGTCCTGCTGTCCCGCGGCGCTCGCCGCGTGGGGCCCAATGAC 333
|||
DB 92 GYTPAlaGlyTrrpLeuSerProArGlySerArGProSertrpGlyProAsnAsp 111

QY 334 CCGCGCGCGAGG 345
|||
DB 112 ProArGArGArG 115

RESULT 10
US-08-290-665A-190
Sequence 190, Application US/08290665A
Patent No. 5882852

GENERAL INFORMATION:
APPLICANT: BURKH, J., MILLER, R.H. AND
APPLICANT: PORCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154

COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 751-6849
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 190:
SEQUENCE CHARACTERISTICS:
LENGTH: 191 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: DK12
US-08-290-665A-190

Alignment Scores: 5,84e-33 Length: 191
Pred. No.: 5,84e-33 Length: 191

Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 2 Gaps: 0
US-09-873-224B-147 (1-346) x US-08-290-665A-190 (1-191)
QY 214 GAGGCGAGGTCCTGGGCTCAGCCGGGTACCTTGCCCTATATGGGAATGAGGCTGC 273
DB 72 GUGUyAygserTtPAlaGInProGlyTyTrrProTrrProLeuTyrgIyAsnGluGlyCyS 91
QY 274 GGGTGGGAGGAGGTGCTCCTGTCCCGGCGGCTCTCGCCGCTCGTGGGAGCCCAATGAC 333
DB 92 GYtTpAlaGlyTrrPleuLeuSerProArgGlySerArgProSerTrrGlyProAsnAsp 111
QY 334 CCCCAGCGCAGG 345
DB 112 ProArgArgArg 115
RESULT 11
US-08-290-665A-191
; Sequence 191, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; INFORMATION FOR SEQ ID NO: 191:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z4
; US-08-290-665A-191
Alignment Scores:
Pred. No.: 5.84e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
DB: 0 Indels: 0
Gaps: 0

Query Match: 38.60% Indels: 0
DB: 2 Gaps: 0
US-09-873-224B-147 (1-346) x US-08-290-665A-191 (1-191)
QY 214 GAGGCGAGGTCCTGGGCTCAGCCGGGTACCTTGCCCTATATGGGAATGAGGCTGC 273
DB 72 GUGUyAygserTtPAlaGInProGlyTyTrrProTrrProLeuTyrgIyAsnGluGlyCyS 91
QY 274 GGGTGGGAGGAGGTGCTCCTGTCCCGGCGGCTCTCGCCGCTCGTGGGAGCCCAATGAC 333
DB 92 GYtTpAlaGlyTrrPleuLeuSerProArgGlySerArgProSerTrrGlyProAsnAsp 111
QY 334 CCCCAGCGCAGG 345
DB 112 ProArgArgArg 115
RESULT 12
US-08-290-665A-192
; Sequence 192, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; INFORMATION FOR SEQ ID NO: 192:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z8
; US-08-290-665A-192
Alignment Scores:
Pred. No.: 5.84e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 2 Gaps: 0

US-09-873-224B-147 (1-346) X US-08-290-665A-192 (1-191)

QY 214 GAGGCGAGGTCTGAGCCGAGGTAACCTTGCCCTTATGGAATGAGGCTGC 273

Db 72 GIUGLYAGSERTIPALAGInProGlyTYrProTIPProLeuTYrGlyAasnGluGlyCys 91

QY 274 GGGTGGGCGAGGAGGCTGCTGTCGCCGCGGCGCTCGCCGCGGGGCGCCAAATGAC 333

Db 92 GIYTPALAGLYrTIPLeuLeuSerProAGlySerAArgProSerTIPGlyProAsnAsp 111

QY 334 CCGGCGCGCAGG 345

Db 112 ProATGArgArg 115

RESULT 13

US-08-290-665A-193

; Sequence 193, Application US/08290665A

; Patent No. 5882852

; GENERAL INFORMATION:

; APPLICANT: BURKH, J., MILLER, R.H. AND

; APPLICANT: PURCELL, R.H.

; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

; NUMBER OF SEQUENCES: 263

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: MORGAN & FINNEGAN

; STREET: 345 PARK AVENUE

; CITY: NEW YORK

; STATE: NEW YORK

; COUNTRY: USA

; ZIP: 10154

; COMPUTER READABLE FORM:

; MEDIUM TYPE: FLOPPY DISK

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: WORDPERFECT 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/290,665A

; FILING DATE: 15-AUG-1994

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: RICHARD W. BORK

; REGISTRATION NUMBER: 36,459

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (212) 751-6849

; TELEFAX: (212) 751-6849

; TELEX: 421792

; INFORMATION FOR SEQ ID NO: 193:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 191 amino acids

; TYPE: amino acid

; STRANDEDNESS: unknown

; TOPOLOGY: unknown

; ORIGINAL SOURCE:

; ORGANISM: homosapiens

; INDIVIDUAL ISOLATE: 21

US-08-290-665A-193

Alignment Scores:

Pred. No.: 5,84e-33

Score: 44.00

Percent Similarity: 100.00%

Best Local Similarity: 100.00%

Query Match: 38.60%

Length: 191

Matches: 44

Conservative: 0

Mismatches: 0

Indels: 0

Gaps: 0

QY 214 GAGGCGAGGTCTGAGCCGAGGTAACCTTGCCCTTATGGAATGAGGCTGC 273

Db 72 GIUGLYAGSERTIPALAGInProGlyTYrProTIPProLeuTYrGlyAasnGluGlyCys 91

QY 274 GGGTGGGCGAGGAGGCTGCTGTCGCCGCGGCGCTCGCCGCGGGGCGCCAAATGAC 333

Db 92 GIYTPALAGLYrTIPLeuLeuSerProAGlySerAArgProSerTIPGlyProAsnAsp 111

QY 334 CCGGCGCGCAGG 345

Db 112 ProATGArgArg 115

RESULT 14

US-08-290-665A-195

; Sequence 195, Application US/08290665A

; Patent No. 5882852

; GENERAL INFORMATION:

; APPLICANT: BURKH, J., MILLER, R.H. AND

; APPLICANT: PURCELL, R.H.

; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

; NUMBER OF SEQUENCES: 263

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: MORGAN & FINNEGAN

; STREET: 345 PARK AVENUE

; CITY: NEW YORK

; STATE: NEW YORK

; COUNTRY: USA

; ZIP: 10154

; COMPUTER READABLE FORM:

; MEDIUM TYPE: FLOPPY DISK

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: WORDPERFECT 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/290,665A

; FILING DATE: 15-AUG-1994

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: RICHARD W. BORK

; REGISTRATION NUMBER: 36,459

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (212) 751-6849

; TELEFAX: (212) 751-6849

; TELEX: 421792

; INFORMATION FOR SEQ ID NO: 195:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 191 amino acids

; TYPE: amino acid

; STRANDEDNESS: unknown

; TOPOLOGY: unknown

; ORIGINAL SOURCE:

; ORGANISM: homosapiens

; INDIVIDUAL ISOLATE: 26

US-08-290-665A-195

Alignment Scores:

Pred. No.: 5,84e-33

Score: 44.00

Percent Similarity: 100.00%

Best Local Similarity: 100.00%

Query Match: 38.60%

Length: 191

Matches: 44

Conservative: 0

Mismatches: 0

Indels: 0

Gaps: 0

QY 214 GAGGCGAGGTCTGAGCCGAGGTAACCTTGCCCTTATGGAATGAGGCTGC 273

Db 72 GIUGLYAGSERTIPALAGInProGlyTYrProTIPProLeuTYrGlyAasnGluGlyCys 91

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OM nucleic - protein search, using frame_plus_n2p model
Run on: July 26, 2005, 07:59:53 ; Search time 59 Seconds
(without alignments)
4562.418 Million cell updates/sec
Title: US-09-873-224B-147
Perfect score: 114
Sequence: 1 atgagcacactctctaaac.....aaatgaccccggcaggga 346

Scoring table: OLIGO
Xgapop 60.0 , Xgapext 60.0
Ygapop 60.0 , Ygapext 60.0
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 1741741 seqs, 388992284 residues

Word size: 1

Total number of hits satisfying chosen parameters: 3339736

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Command line parameters:
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-DB=Published Applications AA -QMT=fastan -SUFFX=oligo.rapp -MINMATCH=0.1
-LOOPEL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=oligo
-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR SIZE=quality -THR MIN=1
-ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0
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-NCPUS=6 -ICPU=3 -NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100
-LONGLOG -DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database : Published Applications AA:
1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
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9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
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11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
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15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/2/pubpaa/US10D_PUBCOMB.pep.*
17: /cgn2_6/ptodata/2/pubpaa/US10E_PUBCOMB.pep.*
18: /cgn2_6/ptodata/2/pubpaa/US10F_PUBCOMB.pep.*
19: /cgn2_6/ptodata/2/pubpaa/US11A_PUBCOMB.pep.*
20: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep.*
21: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
22: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Match | Length | DB | ID | Description |
|------------|-------|-------|--------|----|-------------------|-------------------|
| 1 | 114 | 100.0 | 115 | 9 | US-09-851-138-50 | Sequence 50, Appl |
| 2 | 114 | 100.0 | 115 | 10 | US-09-899-046-148 | Sequence 148, App |
| 3 | 114 | 100.0 | 115 | 10 | US-09-878-281-148 | Sequence 148, App |
| 4 | 99 | 86.8 | 100 | 15 | US-10-651-165-233 | Sequence 233, App |
| 5 | 98 | 86.0 | 115 | 10 | US-09-873-224-148 | Sequence 148, App |
| 6 | 44 | 38.6 | 124 | 14 | US-10-396-964-15 | Sequence 15, Appl |
| 7 | 44 | 38.6 | 166 | 10 | US-09-899-046-164 | Sequence 164, App |
| 8 | 44 | 38.6 | 166 | 10 | US-09-878-281-164 | Sequence 164, App |
| 9 | 44 | 38.6 | 166 | 10 | US-09-873-224-164 | Sequence 164, App |
| 10 | 44 | 38.6 | 189 | 15 | US-10-450-649-9 | Sequence 9, Appl |
| 11 | 44 | 38.6 | 319 | 15 | US-10-651-165-217 | Sequence 217, App |
| 12 | 44 | 38.6 | 319 | 15 | US-10-651-165-219 | Sequence 219, App |
| 13 | 38 | 33.3 | 120 | 16 | US-10-677-956-14 | Sequence 14, Appl |
| 14 | 38 | 33.3 | 130 | 14 | US-10-268-569-19 | Sequence 19, Appl |
| 15 | 38 | 33.3 | 161 | 14 | US-10-230-381-5 | Sequence 5, Appl |
| 16 | 38 | 33.3 | 191 | 14 | US-10-230-381-53 | Sequence 53, Appl |
| 17 | 38 | 33.3 | 191 | 14 | US-10-230-381-54 | Sequence 54, Appl |
| 18 | 38 | 33.3 | 191 | 14 | US-10-230-381-55 | Sequence 55, Appl |
| 19 | 38 | 33.3 | 193 | 14 | US-10-230-381-50 | Sequence 50, Appl |
| 20 | 38 | 33.3 | 193 | 14 | US-10-230-381-51 | Sequence 51, Appl |
| 21 | 38 | 33.3 | 193 | 14 | US-10-230-381-52 | Sequence 52, Appl |
| 22 | 38 | 33.3 | 209 | 14 | US-10-230-381-3 | Sequence 3, Appl |
| 23 | 38 | 33.3 | 209 | 14 | US-10-230-381-7 | Sequence 7, Appl |
| 24 | 38 | 33.3 | 373 | 14 | US-10-230-381-11 | Sequence 11, Appl |
| 25 | 38 | 33.3 | 373 | 14 | US-10-230-381-13 | Sequence 13, Appl |
| 26 | 38 | 33.3 | 373 | 14 | US-10-230-381-15 | Sequence 15, Appl |
| 27 | 36 | 31.6 | 166 | 10 | US-09-899-046-194 | Sequence 194, App |
| 28 | 36 | 31.6 | 166 | 10 | US-09-878-281-194 | Sequence 194, App |
| 29 | 36 | 31.6 | 166 | 10 | US-09-873-224-194 | Sequence 194, App |
| 30 | 34 | 29.8 | 113 | 9 | US-09-921-397-78 | Sequence 78, Appl |
| 31 | 34 | 29.8 | 120 | 16 | US-10-677-956-8 | Sequence 8, Appl |
| 32 | 34 | 29.8 | 120 | 16 | US-10-677-956-10 | Sequence 10, Appl |
| 33 | 34 | 29.8 | 122 | 14 | US-10-098-857B-1 | Sequence 1, Appl |
| 34 | 34 | 29.8 | 126 | 10 | US-09-899-046-166 | Sequence 166, App |
| 35 | 34 | 29.8 | 126 | 10 | US-09-878-281-166 | Sequence 166, App |
| 36 | 34 | 29.8 | 126 | 10 | US-09-873-224-166 | Sequence 166, App |
| 37 | 34 | 29.8 | 151 | 14 | US-10-292-129-14 | Sequence 14, Appl |
| 38 | 34 | 29.8 | 182 | 9 | US-09-923-955-2 | Sequence 2, Appl |
| 39 | 34 | 29.8 | 182 | 13 | US-10-104-966-2 | Sequence 2, Appl |
| 40 | 34 | 29.8 | 182 | 15 | US-10-719-619-2 | Sequence 2, Appl |
| 41 | 34 | 29.8 | 182 | 16 | US-10-817-591-2 | Sequence 2, Appl |
| 42 | 34 | 29.8 | 190 | 14 | US-10-268-562-1 | Sequence 1, Appl |
| 43 | 34 | 29.8 | 190 | 15 | US-10-450-649-7 | Sequence 7, Appl |
| 44 | 34 | 29.8 | 191 | 18 | US-10-770-117-2 | Sequence 2, Appl |
| 45 | 34 | 29.8 | 191 | 18 | US-10-770-117-4 | Sequence 4, Appl |

ALIGNMENTS

RESULT 1
US-09-851-138-50
; Sequence 50, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GERT
; STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

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;
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
;
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
;
; INFORMATION FOR SEQ ID NO: 50:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 50:
US-09-851-138-50
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Alignment Scores:
Pred. No.:      8.12e-97      Length:      115
Score:          114.00        Matches:      115
Percent Similarity: 100.00%    Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match:      100.00%      Indels: 0
DB:                9          Gaps: 0
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US-09-873-224B-147 (1-346) x US-09-851-138-50 (1-115)

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Qy      1 ATGAGCACACTTCCTAAACCAAGAAAGAAAACCAACCAACCCGCGCCACAG 60
Db      1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn**ArgProGln 20

Qy      61 GACGTTAAGTTCCACAGCGCGGTCCAGATCGTTGGTGAGTTTACGTCTCTACCCAGCAGG 120
Db      21 AspValLysPheProGlyGlyGlnIleValGlyValTyValLeuProArgArg 40

Qy      121 GCGCCCGAGTTGGTGTCGTCAGTGCAGAGACTTCCGAGCGGTCCGACCTCGCAGT 180
Db      41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60

Qy      181 AGGCGCCCAACCATCCCGAGCGCGCGCAACCGAGGCGAGTCTCTGGGCTCAGCCCGG 240
Db      61 ArgArgGlnProIleProArgAlaArgThrGluGlyArgSerTrpAlaGlnProGly 80

Qy      241 TACCTCTGGCCCTATATGGGAATCAGGCGTCCGCGGTGGCGAGGCTCTCTGTCCCGC 300
Db      81 TyrProTrpProLeuTyArgLysGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100

Qy      301 CGCGCTCTCGCCCTCTGTGGGGCCCAATGACCCCGCGCAGG 345
Db      101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115
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RESULT 2

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US-09-899-046-148
; Sequence 148, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
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;
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 148:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-899-046-148
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Alignment Scores:
Pred. No.:      8.12e-97      Length:      115
Score:          114.00        Matches:      115
Percent Similarity: 100.00%    Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match:      100.00%      Indels: 0
DB:                10         Gaps: 0
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US-09-873-224B-147 (1-346) x US-09-899-046-148 (1-115)

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Db      1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn**ArgProGln 20

Qy      61 GACGTTAAGTTCCACAGCGCGGTCCAGATCGTTGGTGAGTTTACGTCTCTACCCAGCAGG 120
Db      21 AspValLysPheProGlyGlyGlnIleValGlyValTyValLeuProArgArg 40

Qy      121 GCGCCCGAGTTGGTGTCGTCAGTGCAGAGACTTCCGAGCGGTCCGACCTCGCAGT 180
Db      41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60

Qy      181 AGGCGCCCAACCATCCCGAGCGCGCGCAACCGAGGCGAGTCTCTGGGCTCAGCCCGG 240
Db      61 ArgArgGlnProIleProArgAlaArgThrGluGlyArgSerTrpAlaGlnProGly 80

Qy      241 TACCTCTGGCCCTATATGGGAATCAGGCGTCCGCGGTGGCGAGGCTCTCTGTCCCGC 300
Db      81 TyrProTrpProLeuTyArgLysGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100

Qy      301 CGCGCTCTCGCCCTCTGTGGGGCCCAATGACCCCGCGCAGG 345
Db      101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115
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RESULT 3

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US-09-878-281-148
; Sequence 148, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 148:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
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; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-09-878-281-148

Alignment Scores:
 Pred. No.: 8,12e-97 Length: 115
 Score: 114.00 Matches: 115
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 10 Gaps: 0

US-09-873-224B-147 (1-346) x US-09-878-281-148 (1-115)

| | | | |
|----|-----|---|-----|
| Qy | 1 | ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACCAACCAACCCGCGCACAG | 60 |
| Db | 1 | MetSerThrLeuProLysProGlnAArgLysThrLysArgAsnThrAsn***ArgProGln | 20 |
| Qy | 61 | GAGCTTAAGTTCCAGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTACCGCAGG | 120 |
| Db | 21 | AspValLysPheProGlyGlyGlnIleValGlyValValLeuProArgArg | 40 |
| Qy | 121 | GGCCCCCAGTTGGGTGTGCTGCGAGTCGCCAAGACTTCCAGCGGTGCGACCTCCAGT | 180 |
| Db | 41 | GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer | 60 |
| Qy | 181 | AGCGCCCAACCATCCCGAGCGCGCCGAAACCGAGCGAGTCTGGGCTCAGCCCGGG | 240 |
| Db | 61 | ArgArgGlnProIleProArgAlaArgThrGluGlyArgSerTrpAlaGlnProGly | 80 |
| Qy | 241 | TACCTTGGCCCTATATGGGAATGAGCGTGTGCGGGTGGCGAGGTGGCTCTGTCCTCCG | 300 |
| Db | 81 | TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro | 100 |

RESULT 5
 US-09-873-224-148
 ; Sequence 148, Application US/09873224
 ; Publication No US20030064360A1
 ; GENERAL INFORMATION:
 ; APPLICANT: <Unknown>
 ; TITLE OF INVENTION: New sequences of hepatitis C virus
 ; genotypes for diagnosis, prophylaxis and therapy.
 ; NUMBER OF SEQUENCES: 270
 ; CORRESPONDENCE ADDRESS:
 ; STREET: Industriepark Zwijnaarde 7, box 4
 ; CITY: Ghent
 ; COUNTRY: Belgium
 ; ZIP: B-9052
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/873,224
 ; FILING DATE: 05-Jun-2001
 ; CLASSIFICATION: <Unknown>
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/362,455
 ; FILING DATE: <Unknown>
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Innogenetics sa.
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 00 32 9 241 07 11
 ; TELEFAX: 00 32 9 241 07 99
 ; INFORMATION FOR SEQ ID NO: 148:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 115 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 148:
 US-09-873-224-148

Alignment Scores:
 Pred. No.: 5.69e-82 Length: 115
 Score: 98.00 Matches: 98
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 85.96% Indels: 0
 DB: 10 Gaps: 0

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US-09-873-224B-147 (1-346) x US-09-873-224-148 (1-115)
QY 53 GGCACAGGAGTTAAGTTCACAGCGCGGTCTAGATCGTTGGTGGAGTTACGTGCTAC 112
Db 18 GlyHisArgThrLeuSerSerGlnAlaAlaValArgSerLeuValGluPheThrCysTyr 37
QY 113 CACGACAGGGCCCCAGTGGGTGCGTGCAGTGCAGACACTCCGAGCGGTCCGCAAC 172
Db 38 HisAlaGlyAlaProSerTrpValCysValGlnCysAlaArgLeuProSerGlyArgAsn 57
QY 173 CTCGACGTAGCGCCCAACCCATCCCGAGGGCGCGCGAACCGAGGCGAGTCTCGGGCTC 232
Db 58 LeuAlaValGlyAlaAsnProSerProGlyArgAlaGluProArgAlaGlyProGlyLeu 77
QY 233 AGCCCGGTACCTTGGCCCTATATGGGAATAGGGCTGGGGTGGCGCAGGTGGCTCC 292
Db 78 SerProGlyThrLeuGlyProTyrMetGlyMetArgAlaAlaGlyGlyGlnGlyGlySer 97
QY 293 TGTCCCGCGGGCTCTCGCCGTCGTGGGCGCCCAATGACCCCGGCGCAGGA 346
Db 98 CysProArgAlaAlaLeuAlaArgArgGlyAlaGlnMetThrProGlyAlaGly 115
RESULT 6
US-10-396-964-15
; Sequence 15, Application US/10396964
; Publication No. US20030198946A1
; GENERAL INFORMATION:
; APPLICANT: Simmonds, Peter
; APPLICANT: Chan, Shiu-Wan
; APPLICANT: Yap, Peng L.
; TITLE OF INVENTION: Hepatitis-C Virus Testing
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.
; STREET: 1211 East Morehead Street
; CITY: Charlotte
; STATE: No. US20030198946A1th Carolina
; COUNTRY: United States
; ZIP: 28234
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0. Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/396,964
; FILING DATE: 23-MARCH-2003
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/244,116B
; FILING DATE: 15-JUL-1994
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB92/02143
; FILING DATE: 20-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Sibley, Kenneth D.
; REGISTRATION NUMBER: 31,665
; REFERENCE/DOCKET NUMBER: 1749-125
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 704-377-1561
; TELEFAX: 704-334-2014
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 124 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: yes
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; ORGANISM: Hepatitis-C virus
US-10-396-964-15
Alignment Scores:
Pred. No.: 7.14e-32 Length: 124
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 14 Gaps: 0
US-09-873-224B-147 (1-346) x US-10-396-964-15 (1-124)
QY 214 GAGGCGAGGTCTCTGGGTCTACGCCCGGTACCTTTGGCCCTATATGGGAATGAGGCTGC 273
Db 68 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 87
QY 274 GGGTGGCGAGGTGGCTCTGTCTCCCGCGGGCTCTCGCCGTCGTGGGGCCCCAAATGAC 333
Db 88 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 107
QY 334 CCCCAGCGCAGG 345
Db 108 ProArgArgArg 111
RESULT 7
US-09-899-046-164
; Sequence 164, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0. Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 164:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 166 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-899-046-164
Alignment Scores:
Pred. No.: 6.77e-32 Length: 166
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 10 Gaps: 0
US-09-873-224B-147 (1-346) x US-09-899-046-164 (1-166)
QY 214 GAGGCGAGGTCTCTGGGTCTACGCCCGGTACCTTTGGCCCTATATGGGAATGAGGCTGC 273
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 274 GGGTGGCGAGGTGGCTCTGTCTCCCGCGGGCTCTCGCCGTCGTGGGGCCCCAAATGAC 333
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 334 CCCCAGCGCAGG 345
Db 108 ProArgArgArg 111
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Db 112 ProArgArg 115

RESULT 8

US-09-878-281-164

Sequence 164, Application US/09878281

Publication No. US20030032005A1

GENERAL INFORMATION:

APPLICANT:

TITLE OF INVENTION: New sequences of hepatitis C virus

TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.

NUMBER OF SEQUENCES: 270

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/878,281

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/362,455

FILING DATE:

INFORMATION FOR SEQ ID NO: 164:

SEQUENCE CHARACTERISTICS:

LENGTH: 166 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-878-281-164

Alignment Scores:

Pred. No.: 6,77e-32 Length: 166

Score: 44.00 Matches: 44

Percent Similarity: 100.00% Conservative: 0

Best Local Similarity: 100.00% Mismatches: 0

Query Match: 38.60% Indels: 0

DB: 10 Gaps: 0

US-09-873-224B-147 (1-346) x US-09-878-281-164 (1-166)

QY 214 GAGGCGAGTCTCGGCTCAGCCCGGTACCCCTTGGCCCTATATGGGAATGAGGGTGC 273

Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91

QY 274 GGGTGGGAGGTGGCTCTCTCCCGCGGCTCTCCCGCTCGTGGGCGCCCAATGAC 333

Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111

QY 334 CCCCAGCGCAGG 345

Db 112 ProArgArg 115

US-09-873-224B-147 (1-346) x US-09-878-281-164 (1-166)

RESULT 9

US-09-873-224-164

Sequence 164, Application US/09873224

Publication No. US20030064360A1

GENERAL INFORMATION:

APPLICANT: <Unknown>

TITLE OF INVENTION: New sequences of hepatitis C virus

genotypes for diagnosis, prophylaxis and therapy.

NUMBER OF SEQUENCES: 270

CORRESPONDENCE ADDRESS:

STREET: Industriepark Zwijnaarde 7, box 4

CITY: Ghent

COUNTRY: Belgium

ZIP: B-9052

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/873,224

Db 112 ProArgArg 115

US-09-873-224B-147 (1-346) x US-09-873-224-164 (1-166)

QY 214 GAGGCGAGTCTCGGCTCAGCCCGGTACCCCTTGGCCCTATATGGGAATGAGGGTGC 273

Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91

QY 274 GGGTGGGAGGTGGCTCTCTCCCGCGGCTCTCCCGCTCGTGGGCGCCCAATGAC 333

Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111

QY 334 CCCCAGCGCAGG 345

Db 112 ProArgArg 115

US-09-873-224B-147 (1-346) x US-09-873-224-164 (1-166)

RESULT 10

US-10-450-649-9

Sequence 9, Application US/10450649

Publication No. US20040052818A1

GENERAL INFORMATION:

APPLICANT: Heinz, Franz X.

TITLE OF INVENTION: ATTENUATED LIVE VACCINE

FILE REFERENCE: U 014666-0

CURRENT APPLICATION NUMBER: US/10/450,649

CURRENT FILING DATE: 2003-06-16

PRIOR APPLICATION NUMBER: PCT/AT02/00046

PRIOR FILING DATE: 2002-02-11

PRIOR APPLICATION NUMBER: A 272/2001 AT

PRIOR FILING DATE: 2001-02-21

NUMBER OF SEQ ID NOS: 9

SOFTWARE: Patent in version 3.1

SEQ ID NO 9

LENGTH: 189

TYPE: PRT

ORGANISM: Hepatitis C Virus 3

US-10-450-649-9

Alignment Scores:

Pred. No.: 6,61e-32 Length: 189

Score: 44.00 Matches: 44

Percent Similarity: 100.00% Conservative: 0

Best Local Similarity: 100.00% Mismatches: 0

Query Match: 38.60% Indels: 0

DB: 15 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-450-649-9 (1-189)

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QY 214 GAGGCGAGTCTGGGCTCAGCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 273
Db 71 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 90
QY 274 GGGTGGGAGGGTGGCTCCTGTCCCGCGCGGCTCTCGCCCGTGTGGGGCCCAATGAC 333
Db 91 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 110
QY 334 CCCCGCGCGCAGG 345
Db 111 ProArgArgArg 114

RESULT 11
US-10-651-165-217
; Sequence 217, Application US/10651165
; Publication No. US20040047877A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651,165
; CURRENT FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 217
; LENGTH: 319
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-651-165-217

Alignment Scores:
Pred. No.: 6.01e-32 Length: 319
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 15 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-651-165-217 (1-319)
QY 214 GAGGCGAGTCTGGGCTCAGCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 273
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 274 GGGTGGGAGGGTGGCTCCTGTCCCGCGCGGCTCTCGCCCGTGTGGGGCCCAATGAC 333
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 334 CCCCGCGCGCAGG 345
Db 112 ProArgArgArg 115

RESULT 13
US-10-677-956-14
; Sequence 14, Application US/10677956
; Publication No. US20040214163A1
; GENERAL INFORMATION:
; APPLICANT: ZEBEDEE, SUZANNE
; APPLICANT: INCHAUSPE, GENEVIEVE
; APPLICANT: NASOFF, MARC S.
; APPLICANT: PRINCE, ALFRED M.
; APPLICANT: HELTING, TORSTEN B.
; APPLICANT: DREVIN, HAKAN
; APPLICANT: NUNN, MICHAEL F.
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR PRODUCING
; RECOMBINANT VIRAL ANTIGENS
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: James P. Hillman
; STREET: 45010 Pawnee Drive
; CITY: Fremont
; STATE: CA
; COUNTRY: USA
; ZIP: 94539
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 5.0 Dos Txt
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/677,956
; FILING DATE: 01-Oct-2003
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/931,855B
; FILING DATE: Sep 16, 1997
; APPLICATION NUMBER: US08/563,733
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QY 214 GAGGCGAGTCTGGGCTCAGCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 273
Db 71 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 90
QY 274 GGGTGGGAGGGTGGCTCCTGTCCCGCGCGGCTCTCGCCCGTGTGGGGCCCAATGAC 333
Db 91 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 110
QY 334 CCCCGCGCGCAGG 345
Db 111 ProArgArgArg 114

RESULT 11
US-10-651-165-217
; Sequence 217, Application US/10651165
; Publication No. US20040047877A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651,165
; CURRENT FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 217
; LENGTH: 319
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-651-165-217

Alignment Scores:
Pred. No.: 6.01e-32 Length: 319
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 15 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-651-165-217 (1-319)
QY 214 GAGGCGAGTCTGGGCTCAGCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 273
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 274 GGGTGGGAGGGTGGCTCCTGTCCCGCGCGGCTCTCGCCCGTGTGGGGCCCAATGAC 333
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 334 CCCCGCGCGCAGG 345
Db 112 ProArgArgArg 115

RESULT 12
US-10-651-165-219
; Sequence 219, Application US/10651165
; Publication No. US20040047877A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; FILE REFERENCE: 2551-94
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FILING DATE: 8-NOV-1995
APPLICATION NUMBER: US08/049,531
FILING DATE: 20-APR-1993
APPLICATION NUMBER: US07/344,237
FILING DATE: 26-APR-1989
APPLICATION NUMBER: US07/191,229
FILING DATE: 06-MAY-1988
APPLICATION NUMBER: US07/206,499
FILING DATE: 13-JUN-1988
APPLICATION NUMBER: US07/258,016
FILING DATE: 14-OCT-1988
APPLICATION NUMBER: US08/272,271
FILING DATE: 8-JUL-1994
APPLICATION NUMBER: US07/616,369
FILING DATE: 21-NOV-1990
APPLICATION NUMBER: US07/573,643
FILING DATE: 27-AUG-1990
ATTORNEY/AGENT INFORMATION:
NAME: James P. Hillman Esq.
REGISTRATION NUMBER: 29748
REFERENCE/DOCKET NUMBER: 55467/69
TELECOMMUNICATION INFORMATION:
TELEPHONE: (510) 651 3991
TELEFAX: (510) 651 5991
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 120 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 14:
US-10-677-956-14

Alignment Scores:
Pred. No.: 2,658-26 Length: 120
Score: 38.00 Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.33% Indels: 0
DB: 16 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-677-956-14 (1-120)

QY 214 GAGGCGAGTCTGGGCTCAGCCGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 273
Db 72 GlnGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 274 GGGTGGGCGAGGTGGCTCTCTGTCGCCCGCGGCTCTCGCCCGCTCGTGGGGCCCA 327
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyPro 109

RESULT 14
US-10-268-569-19
; Sequence 19, Application US/10268569
; Publication No. US20030152965A1
; GENERAL INFORMATION:
; APPLICANT: Ortho-Clinical Diagnostics, Inc.
; TITLE OF INVENTION: HCV Core Protein Sequences
; FILE REFERENCE: CDS-0288
; CURRENT APPLICATION NUMBER: US/10/268,569
; PRIOR FILING DATE: 2002-10-10
; PRIOR APPLICATION NUMBER: 60/347,303
; PRIOR FILING DATE: 2001-11-11
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 19
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-268-569-19

Alignment Scores:

Pred. No.: 2,618-26 Length: 130
Score: 38.00 Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.33% Indels: 0
DB: 14 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-268-569-19 (1-130)

QY 214 GAGGCGAGTCTGGGCTCAGCCGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 273
Db 72 GlnGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 274 GGGTGGGCGAGGTGGCTCTCTGTCGCCCGCGGCTCTCGCCCGCTCGTGGGGCCCA 327
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyPro 109

RESULT 15

US-10-230-381-5
; Sequence 5, Application US/10230381
; Publication No. US20030152591A1
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic,
; FILE REFERENCE: INN-124-EP
; CURRENT APPLICATION NUMBER: US/10/230,381
; CURRENT FILING DATE: 2002-08-29
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 161
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-230-381-5

Alignment Scores:
Pred. No.: 2,518-26 Length: 161
Score: 38.00 Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.33% Indels: 0
DB: 14 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-230-381-5 (1-161)

QY 232 CAGCCCGGTACCTTGGCCCTATATGGGAATGAGGGCTCGGGTGGCAGGTGGCTC 291
Db 78 GlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
QY 292 CTGTCCCGCGCGGCTCTCGCCCGCTCGTGGGGCCCAATGACCCCGGCGCAGG 345
Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

Search completed: July 26, 2005, 08:16:09
Job time : 60 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: July 26, 2005, 00:54:54 ; Search time 129 Seconds
(without alignments)

Title: US-09-873-224B-147
 Perfect score: 346
 Sequence: 1 atgaacacacttctctaacc.....aaatgacccccgcgcagga 346

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

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Minimum DB seq length: 0
Maximum DB seq length: 20000000000
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Database :
Issued Patents. NA.*
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2: /cgn2_6/ptodata/1/ina/5B COMB.seq.*
3: /cgn2_6/ptodata/1/ina/6A COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6B COMB.seq.*
5: /cgn2_6/ptodata/1/ina/PTCUS COMB.seq.*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB | ID | Description |
|------------|-------|-------------|--------|----|--------------------|--------------------|
| | | | | | | |
| 1 | 334 | 96.5 | 345 | 4 | US-09-878-281A-147 | Sequence 147, Appl |
| 2 | 298 | 86.1 | 309 | 3 | US-08-836-075A-49 | Sequence 49, Appl |
| 3 | 272.6 | 78.8 | 652 | 3 | US-08-836-075A-59 | Sequence 59, Appl |
| 4 | 271.2 | 78.4 | 499 | 4 | US-09-878-281A-165 | Sequence 165, Appl |
| 5 | 270.4 | 78.2 | 573 | 2 | US-08-290-665A-136 | Sequence 136, Appl |
| 6 | 270.4 | 78.2 | 573 | 4 | US-09-194-949A-5 | Sequence 5, Appl |
| 7 | 270.4 | 78.2 | 573 | 5 | PCT-US95-10398-136 | Sequence 136, Appl |
| 8 | 268.8 | 77.7 | 803 | 1 | US-08-157-235-4 | Sequence 4, Appl |
| 9 | 268.8 | 77.7 | 803 | 1 | US-08-157-235-5 | Sequence 5, Appl |
| 10 | 267.2 | 77.2 | 573 | 2 | US-08-290-665A-135 | Sequence 135, Appl |
| 11 | 267.2 | 77.2 | 573 | 2 | US-08-290-665A-137 | Sequence 137, Appl |
| 12 | 267.2 | 77.2 | 573 | 2 | US-08-290-665A-138 | Sequence 138, Appl |
| 13 | 267.2 | 77.2 | 573 | 2 | US-08-290-665A-141 | Sequence 141, Appl |
| 14 | 267.2 | 77.2 | 573 | 5 | PCT-US95-10398-135 | Sequence 135, Appl |
| 15 | 267.2 | 77.2 | 573 | 5 | PCT-US95-10398-137 | Sequence 137, Appl |
| 16 | 267.2 | 77.2 | 573 | 5 | PCT-US95-10398-138 | Sequence 138, Appl |
| 17 | 267.2 | 77.2 | 573 | 5 | PCT-US95-10398-141 | Sequence 141, Appl |
| 18 | 267.2 | 77.2 | 1037 | 1 | US-08-462-195-1 | Sequence 1, Appl |
| 19 | 267.2 | 77.2 | 1037 | 2 | US-08-636-883-1 | Sequence 1, Appl |
| 20 | 267.2 | 77.2 | 1037 | 3 | US-09-127-829-1 | Sequence 1, Appl |
| 21 | 265.6 | 76.8 | 573 | 2 | US-08-290-665A-107 | Sequence 107, Appl |
| 22 | 265.6 | 76.8 | 573 | 2 | US-08-290-665A-114 | Sequence 114, Appl |
| 23 | 265.6 | 76.8 | 573 | 2 | US-08-290-665A-119 | Sequence 119, Appl |
| 24 | 265.6 | 76.8 | 573 | 5 | PCT-US95-10398-107 | Sequence 107, Appl |
| 25 | 265.6 | 76.8 | 573 | 5 | PCT-US95-10398-114 | Sequence 114, Appl |
| 26 | 265.6 | 76.8 | 573 | 5 | PCT-US95-10398-119 | Sequence 119, Appl |
| 27 | 265.6 | 76.8 | 803 | 1 | US-08-157-235-2 | Sequence 2, Appl |

ALIGNMENTS

RESULT 1

US-09-878-281A-147

; Sequence 147, Application US/09878281A

; Patent No. 6762024

GENERAL INFORMATION:

APPLICANT: Innogenetics N.V.

TITLE OF INVENTION: New sequences

: TITLE OF INVENTION: and therapy

FILE REFERENCE: 35

FILE REFERENCE: 33
: CURRENT APPLICATION NUMBER: US/0

; CURRENT AFFILIATION NUMBER: 200
 ; CURRENT FILING DATE: 200

; CURRENT FILING DATE: 2001-08-
 : NUMBER OF SEQ ID NOS: 284

; NUMBER OF SE
: SOFTWARE: Pa

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; SOFTWARE: Pd
; SEO ID NO 147
```

```

; SEQ ID NO 147
; LENGTH: 345

```

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; LENGTH: 345
; TYPE: DNA

```

TYPE: DNA
ORGANISM: *homo*

Query Match

Query Match Best Local Similarity Pred. No. 1.1e-83;

BEST LOCAL SIMILARITY 99.7%, FREQ: NO: 1:10-99,
Matches 345: Conservative 0: Mismatches 0: Indels 1: Gaps 1:

| | | | | |
|--|----|-----|---|-----|
| | Qy | 1 | ATGAGCACATTCTCTTAACCAACAAGAAAPACCACCAACCCCGGCCACAG | 60 |
| | Dd | 1 | ATGAGCACACTTCTTAACCAACAAGAAAPACCACCAACCCCGGCCACAG | 59 |
| | Qy | 61 | GACGTTAAGTTCCCAGGCGGGTCAGATCGTTGGTGAGTTTACGTGTACACGCAGG | 120 |
| | Dd | 60 | GACGTTAAGTTCCCAGGCGGGTCAGATCGTTGGTGAGTTTACGTGTACACGCAGG | 119 |
| | Qy | 121 | GGCCCCCAGTTGGGTGTGGTGAGTGGCAAGACTTCCGAGCGGTTCGCAACTCTGCAGT | 180 |
| | Dd | 120 | GGCCCCCAGTTGGGTGTGGTGAGTGGCAAGACTTCCGAGCGGTTCGCAACTCTGCAGT | 179 |
| | Qy | 181 | AGGCGCAAACCATCCCCAGGCGCGCGAACCAGAGGCAAGTCTCTGGGCTCAGCCCGGG | 240 |
| | Dd | 180 | AGGCGCAAACCATCCCCAGGCGCGCGAACCAGAGGCAAGTCTCTGGGCTCAGCCCGGG | 239 |
| | Qy | 241 | TACCCITGGCCCCCTATATGGGAATGAGGGCTCGGGTCGGCAGGGTGGCTCTGTCCCGG | 300 |
| | Dd | 240 | TACCCITGGCCCCCTATATGGGAATGAGGGCTCGGGTCGGCAGGGTGGCTCTGTCCCGG | 299 |
| | Qy | 301 | CGCGGCTCTCGCCCGTCTGTGGGGCCCAATAACACCCCGCGCAGGA | 346 |
| | Dd | 300 | CGCGGCTCTCGCCCGTCTGTGGGGCCCAATAACACCCCGCGCAGGA | 345 |

RESULT 2

US-08-836-075A-49


```

RESULT 6
US-09-194-949A-5
; Sequence 5, Application US/09194949A
; Patent No. 6653125
; GENERAL INFORMATION:
; APPLICANT: Merck & Co., Inc.
; APPLICANT: Donnelly, John J.
; APPLICANT: Fu, Tong-Ming
; APPLICANT: Liu, Margaret A.
; APPLICANT: Shiver, John W.
; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
; FILE REFERENCE: 19732VP
; CURRENT APPLICATION NUMBER: US/09/194,949A
; CURRENT FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: PCT/US97/09884
; PRIOR FILING DATE: 1997-06-06
; PRIOR APPLICATION NUMBER: 60/020,494
; PRIOR FILING DATE: 1996-06-11
; PRIOR APPLICATION NUMBER: 60/033,534
; PRIOR FILING DATE: 1996-12-20
; PRIOR APPLICATION NUMBER: 08/865,823
; PRIOR FILING DATE: 1997-05-30
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 573
; TYPE: DNA
; ORGANISM: Hepatitis C Virus
US-09-194-949A-5

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| Query Match | 78.2%; | Score 270.4; | DB 4; | Length 573; |
|-----------------------|-----------------|---|-----------|-------------|
| Best Local Similarity | 86.4%; | Pred. No. 6.6e-66; | | |
| Matches 298; | Conservative 0; | Mismatches 47; | Indels 0; | Gaps 0; |
| Qy | 1 | ATGAGCACACTTCTCTAAACCACAAAGAAACCAAAAGAACCAACCAACCCGCGCCACAG | 60 | |
| Db | 1 | ATGAGCAGCAATCTCTAAACCTTCAAGAGAAACCAAAAGTAAACCAACCGCGCCGCGCCACAG | 60 | |
| Qy | 61 | GACGTTAAGTTCACAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCTACCAACGCAGG | 120 | |
| Db | 61 | GACGTCAAGTTCGCGGGCGGTGTCAGATCGTTGGTGGAGTTTACTTGTTCGCGCGCAGG | 120 | |
| Qy | 121 | GGCCCCCAGTTGGGTGTGCTGTGACGTGGCGAAGACTTCCGAGCGGTGCGAACCTTCGAGT | 180 | |
| Db | 121 | GGCCCCCAGTTGGGTGTGCTGCGCGACCTAGGAAGACTTCCGAGCGGTGCGAACCTTCGTGGA | 180 | |
| Qy | 181 | AGGCGCAACCCATCCCGAGGCGCGCGAACCCGAGGCGAGTCTCTGGGCTTCAGCCCGGG | 240 | |
| Db | 181 | AGGCGCAGAGCCTATCCCCAAGGCTCGCGGCGCGAGGCGAGTCTCTGGGCTTCAGCCCGGG | 240 | |
| Qy | 241 | TACCTTTGGCCCTTATATGGGAATGAGGGCTCGGGGTGGGCGAGGCTGGCTCTCTCCCGG | 300 | |
| Db | 241 | TACCTTTGGCCCTTATATGGCAATGAGGGCTTCGGGTGGGCGAGATGGCTCTCTCTCCCC | 300 | |
| Qy | 301 | CGGGCTCTCGCCGTCGTGGGGCCCCAAATGACCCCCCGGCGCAGG | 345 | |
| Db | 301 | CGGGCTCTCGCCGTCGTGGGGCCCCCACTGACCCCGGCGTAGG | 345 | |

```

RESULT 7
PC7-US95-10398-136
; Sequence 136, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PORCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF
; TITLE OF INVENTION: THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
;

```

ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 136:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: S52
PCT-US95-10398-136

| Query Match | 78.2% | Score 270.4 | DB 5 | Length 573 |
|---------------------------|-------|---|--------|------------|
| Best Local Similarity | 86.4% | Pred. No. 6.6e-66 | | |
| Matches 298; Conservative | 0 | Mismatches 47 | Indels | Gaps 0 |
| Qy | 1 | ATGAGCACACTTCTCTAAACACAAAGAAAAACCAAAAGAAACACCAACCCGCGGCACAG | 60 | |
| Db | 1 | ATGAGCACACTTCTCTAAACCTCAAAGAAAAACCAAAAGAAACACCATCCGTCGCCACAG | 60 | |
| Qy | 61 | GACGTTAAGTTCCGAGCGCGGTCAGATCGTTGGTGGAGTTTACGTGCTACCAACGCAGG | 120 | |
| Db | 61 | GACGTTAAGTTCCGCGGTGGCGGACACATCGTTGGTGGAGTATACGTGTTGTCGCGCAGG | 120 | |
| Qy | 121 | GGCCCCCAGTTGGGTGTGCTGTGACGTGCGCAAGACTTCCGAGCGGTCGCAACCTTCGAGT | 180 | |
| Db | 121 | GGCCACGATTGGGTGTGCGCGGACGCGTAAAACTTCTGAAACGGTCACAGCCTTCGGGA | 180 | |
| Qy | 181 | AGGCGCCAAACCCATCCCCAGGCGCGCGGACCGAGGCGAGTCTCTGGGCTCAGCCCGG | 240 | |
| Db | 181 | CGACGACAGCCTATCCCCAAGAGGCGGTCCGAGGGAAGCGCGTCTCTGGGCTCAGCCCGG | 240 | |
| Qy | 241 | TACCTTTGGCCCCCTATATGGGAATGAGGGGTTCGGGTGGGACAGGTCGCTCTCTCCCG | 300 | |
| Db | 241 | TACCTTTGGCCCCCTCTATGTATATGAGGGGTTCGGGTGGGACAGGTCGCTCTCTCCCA | 300 | |
| Qy | 301 | CGCGGCTCTCGCCCGTCGTGGGGCCCCAAATGACCCCCGGCGCAGG | 345 | |
| Db | 301 | CGCGGCTCTCCGTCCCATCTTGGGGCCCCAAACGACCCCCGGCGGAG | 345 | |

RESULT 8
US-08-157-235-4
; Sequence 4, Application US/08157235
; Patent No. 5550016


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QY 181 AGGCGCCAAACCATCCAGCGCGCGCGAACCAGGAGCGAGTCTGGGCTCAGCCCGG 240
Db |||||
181 AGGCGTCAGCCTATATCCCAAGCGCGCGGTCGAGGCGAGGCTCTGGGCTCAGCCCGG 240
QY 241 TACCCCTTGGCCCCCTATATGGAATGAGGGCTGCGGGTGGGAGGAGGCTCTGTCCCG 300
Db |||||
241 TACCCCTTGGCCCCCTTACGGCAATGAGGGCTGTGGGTGGGAGGAGGCTCTGTCCCG 300
QY 301 CGCGGCTCTCGCCCCCTGTGGGGCCCAAAATGACCCCCCGCGGAGG 345
Db |||||
301 CGCGGTTCCAGGCCCTCTTGGGGCCCAATGATCCCGCGGTAGG 345

RESULT 14
PCT-US95-10398-135
; Sequence 135, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 135:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: HK10
PCT-US95-10398-135

Query Match 77.2%; Score 267.2; DB 5; Length 573;
Best Local Similarity 85.8%; Pred. No. 5.2e-65;
Matches 296; Conservative 0; Mismatches 49; Indels 0; Gaps 0;
QY 1 ATGAGCACACTTCTCTAAACCTCAAAGAAAAACCAAGAAAAACCATCCGTCGCCACAG 60
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Db 1 ATGAGCACACTTCTCTAAACCTCAAAGAAAAACCAAGAAAAACCATCCGTCGCCACAG 60
QY 61 GACGTTAAGTTCCAGCGCGCGGTACAGATCGTTGGTGGAGTTTACGTGCTACCAACGAGG 120
Db |||||
61 GACGTTAAGTTCCCGGTGGCGGACAGATCGTTGGTGGAGTATACGTGTTCGCCGCGAGG 120
QY 121 GGCCCCCAGTTGGGTGTGCGTGCAGTGCAGAACTTCCGAGCGGTGCGCAACCTTCGCAGT 180
Db |||||
121 GGCCCCAGATGGGTGTGCGCGGACGCGTAAACTTCTGNAACGTCGCAGCTTCGCGGA 180
QY 181 AGCGCCCAACCCATCCCAAGGCGCGCGAACCGAGGGCAGGTCTGGGTCTACGCCGCGG 240
Db |||||
181 CGACGACAGCCTATCCCAAGGCGGTGCGAGCGGCGGTCTGGGCTCAGCCCGG 240
QY 241 TACCCCTTGGCCCCCTATATGGAATGAGGGCTGCGGGTGGGAGGAGGCTCTGTCCCG 300
Db |||||
241 TACCCCTTGGCCCCCTCTATGTTAAGAGGGGTGCGGGTGGGAGGATGGTCTCTGTCCCA 300
QY 301 CGCGGCTCTCGCCCCCTGTGGGGCCCAAAATGACCCCCCGCGGAGG 345
Db |||||
301 CGCGGCTCCGTCATCTTGGGGCCCAACGACCCCCCGCGGAGG 345

RESULT 15
PCT-US95-10398-137
; Sequence 137, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 137:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
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; INDIVIDUAL ISOLATE: S2
PCT-US95-10398-137

PCT-US95-10398-137

Query Match 77.2%; Score 267.2; DB 5; Length 573;

Best Local Similarity 85.8%; Pred. No. 5.2e-65;

| | | | | | | | | | |
|---------|------|--------------|----|------------|-----|--------|----|------|----|
| Matches | 296; | Conservative | 0; | Mismatches | 49; | Indels | 0; | Gaps | 0; |
|---------|------|--------------|----|------------|-----|--------|----|------|----|

QY 1 ATGAGCACACTTCCCTAAACCAAGAAACCAACCAACCCGCCACAG 60

Db 1 ATGAGCACACTTCCTAAACCTCAAGAAACCAAGAAACACCATCCGTGCGCCACAG 60

61 GACGTTAAGTCCAGCGCGGTCAGATCGTTGGTGAGTTACGTGTACCAACGAGG 120

db
61 GACATCAAGTTC CGGGTGCGGACAGATCGTTGGTGAGTATACGTGTGCCGCGCAGG 120

121 GGCCCCCAGTTGGGTGTGGTGCAGTGCGCAAGACTTCCGAGCGGTCCGAACCTCGCAGT 180

Db 121 GGGCCACGATTGGGTGTGCGCGGACGGGTAAACCTTCTGAACGGTCACAGCCTCGCGGA 180

181 AGGGGCCAACCCATCCCAAGGGGGCCGACCGAGGGGACGGTCTGTGGGCTAGCCCGGG 240

181 CCGCCACGACCTTATCCCCCAACCCGCGTCCGACCGACCGACCGGTCATGCGGTCACGCCCGG 240

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Search completed: July 26, 2005, 04:18:30

Search completed: 00
Job time : 131 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 26, 2005, 03:52:16 ; Search time 2142 Seconds
(without alignments)
1044.506 Million cell updates/sec

Title: US-09-873-224B-147

Perfect score: 346

Sequence: 1 atgagcacactcttaaac.....aaatgaccccggcgcagga 346

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 7277826 seqs, 3233139505 residues

Total number of hits satisfying chosen parameters: 14555652

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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16: /cgn2_6/ptodata/2/pubpna/US10E_PUBCOMB.seq.*

17: /cgn2_6/ptodata/2/pubpna/US10F_PUBCOMB.seq.*

18: /cgn2_6/ptodata/2/pubpna/US10G_PUBCOMB.seq.*

19: /cgn2_6/ptodata/2/pubpna/US10H_PUBCOMB.seq.*

20: /cgn2_6/ptodata/2/pubpna/US10I_PUBCOMB.seq.*

21: /cgn2_6/ptodata/2/pubpna/US10J_PUBCOMB.seq.*

22: /cgn2_6/ptodata/2/pubpna/US11A_PUBCOMB.seq.*

23: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq.*

24: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*

25: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*

26: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|-------------------|
| 1 | 345 | 99.7 | 346 | 10 | US-09-899-046-147 |
| 2 | 345 | 99.7 | 346 | 10 | US-09-878-281-147 |
| 3 | 334 | 96.5 | 345 | 10 | US-09-873-224-147 |
| 4 | 298 | 86.1 | 309 | 9 | US-09-851-138-49 |
| 5 | 272.6 | 78.8 | 652 | 9 | US-09-851-138-59 |
| 6 | 271.2 | 78.4 | 499 | 10 | US-09-899-046-165 |
| 7 | 271.2 | 78.4 | 499 | 10 | US-09-878-281-165 |

| | | | | | |
|----|-------|------|------|----|-------------------|
| 8 | 271.2 | 78.4 | 499 | 10 | US-09-873-224-165 |
| 9 | 270.4 | 78.2 | 573 | 21 | US-09-194-949-5 |
| 10 | 270.4 | 78.2 | 573 | 21 | US-10-664-391-5 |
| 11 | 264.6 | 76.5 | 498 | 10 | US-09-899-046-193 |
| 12 | 264.6 | 76.5 | 498 | 10 | US-09-878-281-193 |
| 13 | 264.6 | 76.5 | 498 | 10 | US-09-873-224-193 |
| 14 | 264 | 76.3 | 499 | 10 | US-09-899-046-163 |
| 15 | 264 | 76.3 | 499 | 10 | US-09-878-281-163 |
| 16 | 264 | 76.3 | 499 | 10 | US-09-873-224-163 |
| 17 | 264 | 76.3 | 2433 | 9 | US-09-973-025-49 |
| 18 | 264 | 76.3 | 2433 | 10 | US-09-899-303-49 |
| 19 | 264 | 76.3 | 2433 | 10 | US-09-995-808-49 |
| 20 | 264 | 76.3 | 2433 | 10 | US-09-995-860-49 |
| 21 | 264 | 76.3 | 2433 | 19 | US-09-995-791-49 |
| 22 | 264 | 76.3 | 2433 | 19 | US-10-321-798-49 |
| 23 | 262.4 | 75.8 | 531 | 20 | US-10-484-112-1 |
| 24 | 262.4 | 75.8 | 1953 | 20 | US-10-484-112-3 |
| 25 | 260.8 | 75.4 | 360 | 9 | US-09-306-780-3 |
| 26 | 260.8 | 75.4 | 843 | 9 | US-09-306-780-7 |
| 27 | 260.8 | 75.4 | 843 | 9 | US-09-306-780-11 |
| 28 | 260.8 | 75.4 | 9353 | 20 | US-10-475-024-17 |
| 29 | 260.8 | 75.4 | 9413 | 10 | US-09-827-688-6 |
| 30 | 260.8 | 75.4 | 9413 | 22 | US-10-475-026-17 |
| 31 | 259.8 | 75.1 | 957 | 9 | US-09-851-138-11 |
| 32 | 259.2 | 74.9 | 378 | 20 | US-10-677-956-13 |
| 33 | 259.2 | 74.9 | 480 | 16 | US-10-071-867-15 |
| 34 | 259.2 | 74.9 | 9275 | 15 | US-10-259-275-39 |
| 35 | 259.2 | 74.9 | 9275 | 24 | US-11-006-313-39 |
| 36 | 257.6 | 74.5 | 378 | 20 | US-10-677-956-9 |
| 37 | 257.6 | 74.5 | 480 | 21 | US-10-664-038-13 |
| 38 | 257.6 | 74.5 | 685 | 10 | US-09-853-409-37 |
| 39 | 257.6 | 74.5 | 685 | 18 | US-10-457-304-37 |
| 40 | 257.6 | 74.5 | 685 | 18 | US-10-454-293-37 |
| 41 | 257.6 | 74.5 | 708 | 17 | US-10-365-620-57 |
| 42 | 257.6 | 74.5 | 708 | 17 | US-10-912-969-59 |
| 43 | 257.6 | 74.5 | 750 | 17 | US-10-365-620-53 |
| 44 | 257.6 | 74.5 | 750 | 21 | US-10-312-969-55 |
| 45 | 257.6 | 74.5 | 1380 | 17 | US-10-365-620-59 |

ALIGNMENTS

RESULT 1

US-09-899-046-147

Sequence 147, Application US/09899046

Publication No. US20030008274A1

GENERAL INFORMATION:

APPLICANT:

TITLE OF INVENTION: New sequences of hepatitis C virus

NUMBER OF SEQUENCES: 270

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/899,046

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/362,455

FILING DATE:

INFORMATION FOR SEQ ID NO: 147:

SEQUENCE CHARACTERISTICS:

LENGTH: 346 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: CDNA

HYPOTHETICAL: NO

ANTI-SENSE: NO

FEATURE:


```
; NAME/KEY: mat_peptide
; LOCATION: 1..342
; SEQUENCE DESCRIPTION: SEQ ID NO: 147:
US-09-873-224-147

Query Match      96.5%; Score 334; DB 10; Length 345;
Best Local Similarity 99.7%; Pred. No. 2.6e-93;
Matches 345; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCCTAAACCAACAAAGAAAACCAAAAGAAAACCAACCAACCAACCGGCCACAG 60
   |||||
Db 1 ATGAGCACACTTCCTAAACCAACAAAGAAAACCAAAAGAAAACCAACCAACCAACCGGCCACAG 59

QY 61 GACGTTAAGTTCCACAGGCGCGGTCCAGATCGTTGGTGAGTTAGTGCTTACCACGACAGG 120
   |||||
Db 60 GACGTTAAGTTCCACAGGCGCGGTCCAGATCGTTGGTGAGTTAGTGCTTACCACGACAGG 119

QY 121 GCGCCCCAGTTGGGTGTCAGTGCAGCAAGACTTCCGAGCGGTCCGCAACCTCGCAGT 180
   |||||
Db 120 GCGCCCCAGTTGGGTGTCAGTGCAGCAAGACTTCCGAGCGGTCCGCAACCTCGCAGT 179

QY 181 AGCGCCCAACCCATCCACAGGCGCGCGCAACCGAGGCGAGTCTCTGGCTCAGCCCGG 240
   |||||
Db 180 AGCGCCCAACCCATCCACAGGCGCGCGCAACCGAGGCGAGTCTCTGGCTCAGCCCGG 239

QY 241 TACCCCTTGGCCCCCTATATGGGAATCAGGCGTCCGCGGTGGCGAGGTGCTCTGTCCCCG 300
   |||||
Db 240 TACCCCTTGGCCCCCTATATGGGAATCAGGCGTCCGCGGTGGCGAGGTGCTCTGTCCCCG 299

QY 301 CCGCGCTCTCGCGCGTCTGTTGGGCCCCAAATGACCCCCCGCGCAGGA 346
   |||||
Db 300 CCGCGCTCTCGCGCGTCTGTTGGGCCCCAAATGACCCCCCGCGCAGGA 345

RESULT 4
US-09-851-138-49
; Sequence 49, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 49:
; SEQUENCE CHARACTERISTICS:
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; LENGTH: 309 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 49:
US-09-851-138-49

Query Match      86.1%; Score 298; DB 9; Length 309;
Best Local Similarity 99.7%; Pred. No. 3.5e-82;
Matches 309; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCCTAAACCAACAAAGAAAACCAAAAGAAAACCAACCAACCAACCGGCCACAG 60
   |||||
Db 1 ATGAGCACACTTCCTAAACCAACAAAGAAAACCAAAAGAAAACCAACCAACCAACCGGCCACAG 59

QY 61 GACGTTAAGTTCCACAGGCGCGGTCCAGATCGTTGGTGAGTTAGTGCTTACCACGACAGG 120
   |||||
Db 60 GACGTTAAGTTCCACAGGCGCGGTCCAGATCGTTGGTGAGTTAGTGCTTACCACGACAGG 119

QY 121 GCGCCCCAGTTGGGTGTCAGTGCAGCAAGACTTCCGAGCGGTCCGCAACCTCGCAGT 180
   |||||
Db 120 GCGCCCCAGTTGGGTGTCAGTGCAGCAAGACTTCCGAGCGGTCCGCAACCTCGCAGT 179

QY 181 AGCGCCCAACCCATCCACAGGCGCGCGCAACCGAGGCGAGTCTCTGGCTCAGCCCGG 240
   |||||
Db 180 AGCGCCCAACCCATCCACAGGCGCGCGCAACCGAGGCGAGTCTCTGGCTCAGCCCGG 239

QY 241 TACCCCTTGGCCCCCTATATGGGAATCAGGCGTCCGCGGTGGCGAGGTGCTCTGTCCCCG 300
   |||||
Db 240 TACCCCTTGGCCCCCTATATGGGAATCAGGCGTCCGCGGTGGCGAGGTGCTCTGTCCCCG 299

QY 301 CCGCGCTCTC 310
   |||||
Db 300 CCGCGCTCTC 309

RESULT 5
US-09-851-138-59
; Sequence 59, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 49:
; SEQUENCE CHARACTERISTICS:
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| Qy | 121 | GGCCCCAGTTGGGTGTCAGTGGCGCAAGACTTCCGAGCGGTGCACACTTCGCAGT | 180 |
| | | | |
| Db | 121 | GGCCCCAGGTTGGGTGTCGCGCGACTCGGAGAGACTTCGGAGCGTGCACACTCTGTGG | 180 |
| | | | |
| Qy | 181 | AGSGCGCAACCCATCCAGGCGCGCCGAACCGAGGCGAGTCTCTGGGTCAGCCCGGG | 240 |
| | | | |
| Db | 181 | AGSGCGCAACCTATCCCCAAGCGCGCCGAACCGAGGCGAGATCTTGGGCGCAGCCCGGG | 240 |
| | | | |
| Qy | 241 | TACCTTGGCCCCCTATATGGGAATGAGGGCTGCGGGTGGGCGAGGTTGGTCTCTGTCCCCG | 300 |
| | | | |
| Db | 241 | TATCCTTGGCCCCCTTACGGCAATGAGGGCTGTGGGTGGGCGAGGTTGGTCTCTGTCCCCCT | 300 |
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| Qy | 301 | CGGGGCTCTCGCCGCTGTGGGGGCCCAATAATGACCCCCGGCGCAG | 344 |
| | | | |
| Db | 301 | CGCGGNTCTCGNGCGTCTTTGGGGGCCCAATGATCCCGGNGGAG | 344 |
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RESULT 8

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RESULT 9

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US-09-194-949-5
; Sequence 5, Application US/09194949
; Publication NO. US20030053987A1
; GENERAL INFORMATION:
; APPLICANT: Merck & Co., Inc.
; APPLICANT: Donnelly, John J.
; APPLICANT: Fu, Tong-Ming
; APPLICANT: Liu, Margaret A.
; APPLICANT: Shiver, John W.
; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
; FILE REFERENCE: 19732YP
; CURRENT APPLICATION NUMBER: US/09/194,949
; CURRENT FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: PCT/US97/09884
; PRIOR FILING DATE: 1997-06-06
; PRIOR APPLICATION NUMBER: 60/020,494
; PRIOR FILING DATE: 1996-06-11
; PRIOR APPLICATION NUMBER: 60/033,534
; PRIOR FILING DATE: 1996-12-20
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 573
; TYPE: DNA
; ORGANISM: Hepatitis C Virus
US-09-194-949-5

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| | Query Match | 78.4%; | Score 271.2; | DB 10; | Length 499; |
|----|-----------------------|--|--------------------|--------|-------------|
| | Best Local Similarity | 86.3%; | Pred. No. 7.3e-74; | | |
| | Matches 297; | Conservative | 0; Mismatches 47; | Indels | Gaps 0 |
| Qy | 1 | ATGAGCACACTTCTTAACCAAGAAACCCAAAAGAARACCAACCNCNCGGCCACAG | 60 | | |
| | | | | | |
| Dd | 1 | ATGAGCAGCAATCTTAAACCTCAGAAAAAACCAAACCGTTAACCAACGGCGGCCTATG | 60 | | |
| Qy | 61 | GACGTTAAGTTCACAGGCGGGGTGAGATCGTTGTTGGATTAGTGCTACCAAGCAGG | 120 | | |
| Dd | 61 | GACGTTAAGTTCCAGGCGGGGTGAGATCGTTGGCGAGTTACTGTGTGCGGGCAGG | 120 | | |

TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 1..498
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 1..495
US-09-878-281-193

Query Match 76.5%; Score 264.6; DB 10; Length 498;
Best Local Similarity 85.5%; Pred. No. 8.1e-72;
Matches 294; Conservative 0; Mismatches 50; Indels 0; Gaps 0;

Qy 1 ATGAGCACACTTCTTAACCAAGAAAAACCAAGAAAAACCAACCAACCCGCGCCACAG 60
Db 1 ATGAGCAGCATCTTAACCTCAAGAAAAACCAACCAACCAACCCGCGCCCTATG 60

Qy 61 GACGTTAAGTCCAGCGCGGTGAGATCGTTGGTGGAGTTTACGTCTACCAAGCAGG 120
Db 61 GACGTTAAGTCCAGCGCGGTGAGATCGTTGGTGGAGTTTACGTCTACCAAGCAGG 120

Qy 121 GCGCCCAAGTGGGTGGGTGCGAGTCCGAGACTTCGAGCGGTGCGAACCTCGCAGT 180
Db 121 GCGCCCAAGTGGGTGGGTGCGAGTTCGGAAGACTTCGAGCGGTGCGAACCTCGTGGC 180

Qy 181 AGGCGCAACCCATCCCGAGCGCGCGCAACCCAGGCGAGTCTCGGGCTCAGCCCGG 240
Db 181 AGGCGTCAACTATCCCAAGCGCGCGGTCCGAGGCGAGTCTCGGGCGAAGCGGG 240

Qy 241 TACCTTGGCCCTATATGGAATAGAGGCTGCGGGTGGCGAGGCTGCTGTCCCG 300
Db 241 TACCCCTGGCCCTCTATGGAATAGAGGCTGTGGGTGGCGAGGCTGCTGTCTCT 300

Qy 301 CGCGCTCTCGCGCTCTGGGGCCCAATGACCCCGCGCGAG 344
Db 301 CGCGCTCTCGCGCTCTGGGGCCCAATGATCCCGCGCGAG 344

RESULT 13

US-09-873-224-193
; Sequence 193, Application US/09873224
; Publication No. US2003064360A1
; GENERAL INFORMATION:
; APPLICANT: <Unknown>
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; CORRESPONDENCE ADDRESS:
; STREET: Industriepark Zwijnaarde 7, box 4
; CITY: Ghent
; COUNTRY: Belgium
; ZIP: B-9052
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/873,224
; FILING DATE: 05-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Innogenetics sa.
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 00 32 9 241 07 11

TELEFAX: 00 32 9 241 07 99
; INFORMATION FOR SEQ ID NO: 193:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 498 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..498
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..495
; SEQUENCE DESCRIPTION: SEQ ID NO: 193:
US-09-873-224-193

Query Match 76.5%; Score 264.6; DB 10; Length 498;
Best Local Similarity 85.5%; Pred. No. 8.1e-72;
Matches 294; Conservative 0; Mismatches 50; Indels 0; Gaps 0;

Qy 1 ATGAGCACACTTCTTAACCAAGAAAAACCAAGAAAAACCAACCAACCCGCGCCACAG 60
Db 1 ATGAGCAGCATCTTAACCTCAAGAAAAACCAACCAACCAACCCGCGCCCTATG 60

Qy 61 GACGTTAAGTCCAGCGCGGTGAGATCGTTGGTGGAGTTTACGTCTACCAAGCAGG 120
Db 61 GACGTTAAGTCCAGCGCGGTGAGATCGTTGGTGGAGTTTACGTCTACCAAGCAGG 120

Qy 121 GCGCCCAAGTGGGTGGGTGCGAGTCCGAGACTTCGAGCGGTGCGAACCTCGCAGT 180
Db 121 GCGCCCAAGTGGGTGGGTGCGAGTTCGGAAGACTTCGAGCGGTGCGAACCTCGTGGC 180

Qy 181 AGGCGCAACCCATCCCGAGCGCGCGCAACCCAGGCGAGTCTCGGGCTCAGCCCGG 240
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Qy 241 TACCTTGGCCCTATATGGAATAGAGGCTGCGGGTGGCGAGGCTGCTGTCCCG 300
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Qy 301 CGCGCTCTCGCGCTCTGGGGCCCAATGACCCCGCGCGAG 344
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RESULT 14

US-09-899-046-163
; Sequence 163, Application US/09899046
; Publication No. US2003000827A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 163:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 499 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single

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;
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..499
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..496
US-09-899-046-163

Query Match          76.3%; Score 264; DB 10; Length 499;
Best Local Similarity 85.2%; Pred. No. 1.2e-71;
Matches 294; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

Qy 1 ATGAGCACACTTCCTAAACCAAAAGAAAAACCAAAAGAAACCAACCAACCCGCGCCACAG 60
    |||||
Db 1 ATGAGCACGAATCCTAAACTTCAAAGAAAAACCAACGTAACCAACCGCGCCCATG 60
    |||||
Qy 61 GACGTTAAGTTCCAGCGCGGTCAGATCGTTGGTGAGTTTACGTGCTACCAACGCGAGG 120
    |||||
Db 61 GACGTTAAGTTCCCGGGTGGTGGCCAGATCGTTGGCGAGTTTACTTGTGCCCGCAGG 120
    |||||
Qy 121 GCGCCCGCAGTTGGGTGTCAGTGCGCGAGACTTCCGAGCGGTGCGCAACCTCGCAGT 180
    |||||
Db 121 GCGCCTAGTTGGGTGTCAGTGCGCGAGACTTCCGAGCGGTGCGCAACCTCGTGGG 180
    |||||
Qy 181 AGGCGCCAAACCCATCCCGAGGCGCGCGCAACCGAGGCGAGTCTCTGGGCTCAGCCCGG 240
    |||||
Db 181 AGGCGCCAAACCTATCCCAAGGCGCGCGCATCCAGGCGAGATCCTGGGCGCAGCCCGG 240
    |||||
Qy 241 TACCTTGGCCCTTATATGGGAATGAGGGCTGCGGGTGGGCGAGGGTGGCTCTGTCCCG 300
    |||||
Db 241 TATCTTGGCCCTTTTACGGCAATGAGGGCTGTGGGTGGGCGAGGGTGGCTCTGTCCCT 300
    |||||
Qy 301 CGCGGCTCTCGCGCTCGTGGGCGCCAAATGACCCCGCGCGCAGG 345
    |||||
Db 301 CGCGGCTCTCGCGCTCTTGGGCGCCTAATGATCCCGCGCGAGG 345
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RESULT 15

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US-09-878-281-163
; Sequence 163, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 163:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 499 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..499
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;
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..496
US-09-878-281-163

Query Match          76.3%; Score 264; DB 10; Length 499;
Best Local Similarity 85.2%; Pred. No. 1.2e-71;
Matches 294; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

Qy 1 ATGAGCACACTTCCTAAACCAAAAGAAAAACCAAAAGAAACCAACCCGCGCCACAG 60
    |||||
Db 1 ATGAGCACGAATCCTAAACTTCAAAGAAAAACCAACGTAACCAACCGCGCCCATG 60
    |||||
Qy 61 GACGTTAAGTTCCAGCGCGGTCAGATCGTTGGTGAGTTTACGTGCTACCAACGCGAGG 120
    |||||
Db 61 GACGTTAAGTTCCCGGGTGGTGGCCAGATCGTTGGCGAGTTTACTTGTGCCCGCAGG 120
    |||||
Qy 121 GCGCCCGCAGTTGGGTGTCAGTGCGCGAGACTTCCGAGCGGTGCGCAACCTCGCAGT 180
    |||||
Db 121 GCGCCTAGTTGGGTGTCAGTGCGCGAGACTTCCGAGCGGTGCGCAACCTCGTGGG 180
    |||||
Qy 181 AGGCGCCAAACCCATCCCGAGGCGCGCGCAACCGAGGCGAGTCTCTGGGCTCAGCCCGG 240
    |||||
Db 181 AGGCGCCAAACCTATCCCAAGGCGCGCGCATCCAGGCGAGATCCTGGGCGCAGCCCGG 240
    |||||
Qy 241 TACCTTGGCCCTTATATGGGAATGAGGGCTGCGGGTGGGCGAGGGTGGCTCTGTCCCG 300
    |||||
Db 241 TATCTTGGCCCTTTTACGGCAATGAGGGCTGTGGGTGGGCGAGGGTGGCTCTGTCCCT 300
    |||||
Qy 301 CGCGGCTCTCGCGCTCGTGGGCGCCAAATGACCCCGCGCGCAGG 345
    |||||
Db 301 CGCGGCTCTCGCGCTCTTGGGCGCCTAATGATCCCGCGCGAGG 345
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Search completed: July 26, 2005, 06:28:53
Job time : 2143 secs

GenCore version 5.1.6
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OM nucleic - protein search, using frame_plus_n2p model

Run on: July 26, 2005, 06:29:03 ; Search time 50 Seconds
(without alignments)
1033.143 Million cell updates/sec

Title: US-09-873-224B-147

Perfect score: 638

Sequence: 1 atgagcacactctctaaacc.....aatgaccccgccgcagga 346

Scoring table:

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Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 1027090

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-DB=Issued Patents AA -QFMT=fastan -SUFFIX=rai -MINMATCH=0.1 -LOOPEXT=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCALLS=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0 -MAXLEN=200000000
-USER=US09873224 @CGN_1_1_30 @runat_22072005_171148_26524 -NCPU=6 -ICPU=3
-NO WMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Issued Patents AA:*
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6: /cgn2_6/ptodata/1/iaa/backfiles1.pcp:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|--------------------|
| 1 | 637 | 99.8 | 115 | 3 | US-08-836-075A-50 |
| 2 | 609 | 95.5 | 191 | 2 | US-08-290-665A-187 |
| 3 | 609 | 95.5 | 191 | 2 | US-08-290-665A-188 |
| 4 | 609 | 95.5 | 191 | 2 | US-08-290-665A-190 |
| 5 | 609 | 95.5 | 191 | 5 | PCT-US95-10398-187 |
| 6 | 609 | 95.5 | 191 | 5 | PCT-US95-10398-188 |
| 7 | 609 | 95.5 | 191 | 5 | PCT-US95-10398-190 |
| 8 | 608 | 95.3 | 191 | 2 | US-08-290-665A-189 |
| 9 | 608 | 95.3 | 191 | 5 | PCT-US95-10398-189 |
| 10 | 603 | 94.5 | 191 | 2 | US-08-290-665A-192 |
| 11 | 603 | 94.5 | 191 | 2 | US-08-290-665A-193 |
| 12 | 603 | 94.5 | 191 | 2 | US-08-290-665A-195 |

| | | | | | |
|----|-----|------|------|---|--------------------|
| 13 | 603 | 94.5 | 191 | 5 | PCT-US95-10398-192 |
| 14 | 603 | 94.5 | 191 | 5 | PCT-US95-10398-193 |
| 15 | 603 | 94.5 | 191 | 5 | PCT-US95-10398-195 |
| 16 | 602 | 94.4 | 120 | 4 | US-08-931-855B-14 |
| 17 | 600 | 94.0 | 319 | 3 | US-08-836-075A-12 |
| 18 | 600 | 94.0 | 319 | 4 | US-08-635-886C-199 |
| 19 | 600 | 94.0 | 319 | 4 | US-08-974-690C-199 |
| 20 | 599 | 93.9 | 191 | 2 | US-08-290-665A-196 |
| 21 | 599 | 93.9 | 191 | 5 | PCT-US95-10398-196 |
| 22 | 598 | 93.7 | 450 | 4 | US-08-635-886C-181 |
| 23 | 598 | 93.7 | 450 | 4 | US-08-974-690C-181 |
| 24 | 598 | 93.7 | 2894 | 2 | US-08-466-975A-23 |
| 25 | 598 | 93.7 | 2894 | 2 | US-08-391-671A-23 |
| 26 | 598 | 93.7 | 2894 | 3 | US-08-467-902A-23 |
| 27 | 598 | 93.7 | 2894 | 3 | US-09-275-265-23 |
| 28 | 598 | 93.7 | 2894 | 4 | US-09-941-611-23 |
| 29 | 597 | 93.6 | 120 | 4 | US-08-931-855B-10 |
| 30 | 597 | 93.6 | 182 | 4 | US-10-104-966-2 |
| 31 | 597 | 93.6 | 191 | 2 | US-08-290-665A-156 |
| 32 | 597 | 93.6 | 191 | 2 | US-08-290-665A-157 |
| 33 | 597 | 93.6 | 191 | 2 | US-08-290-665A-158 |
| 34 | 597 | 93.6 | 191 | 2 | US-08-290-665A-159 |
| 35 | 597 | 93.6 | 191 | 2 | US-08-290-665A-160 |
| 36 | 597 | 93.6 | 191 | 2 | US-08-290-665A-191 |
| 37 | 597 | 93.6 | 191 | 2 | US-08-290-665A-197 |
| 38 | 597 | 93.6 | 191 | 3 | US-08-380-160-3 |
| 39 | 597 | 93.6 | 191 | 5 | PCT-US95-10398-156 |
| 40 | 597 | 93.6 | 191 | 5 | PCT-US95-10398-157 |
| 41 | 597 | 93.6 | 191 | 5 | PCT-US95-10398-158 |
| 42 | 597 | 93.6 | 191 | 5 | PCT-US95-10398-159 |
| 43 | 597 | 93.6 | 191 | 5 | PCT-US95-10398-160 |
| 44 | 597 | 93.6 | 191 | 5 | PCT-US95-10398-191 |
| 45 | 597 | 93.6 | 191 | 5 | PCT-US95-10398-197 |

ALIGNMENTS

RESULT 1

US-08-836-075A-50

; Sequence 50, Application US/08836075A

; Patent No. 6180768

; GENERAL INFORMATION:

; APPLICANT: MAERTENS, GEERT

; APPLICANT: STUYVER, LIEVEN

; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

; TITLE OF INVENTION: AGENTS

; NUMBER OF SEQUENCES: 207

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: ARNOLD, WHITE & DURKEE

; STREET: P.O. BOX 4433

; CITY: HOUSTON

; STATE: TEXAS

; COUNTRY: USA

; ZIP: 77210-4433

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Microsoft Word 6.0 / ASCII text output

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/836,075A

; FILING DATE: 21 Apr 1997

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: PCT/EP95/04155

; FILING DATE: 23 Oct 1995

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 94870166.9

; FILING DATE: 21 Oct 1994

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 95870076.7

; FILING DATE: 28 Jun 1995

; ATTORNEY/AGENT INFORMATION:

```
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS.004
; INFORMATION FOR SEQ ID NO: 50:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-836-075A-50

Alignment Scores:
Pred. No.: 3,13e-52 Length: 115
Score: 637.00 Matches: 115
Percent Similarity: 100.00% Conservativeness: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 99.84% Indels: 0
DB: 3 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-836-075A-50 (1-115)
QY 1 ATGAGCACATCTCTAAACCAAGAAAAACCAAAAGAAAAACCAACNCCGCCACAG 60
DB 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn***ArgProGln 20
QY 61 GACGTTAAGTTCACAGCGCGGTCCAGATCGTTGGTGGAGTTTACGTGCTACCGAGG 120
DB 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrValLeuProArgArg 40
QY 121 GCGCCCAAGTTCGCGTGCAGTCCGAGACTTCGAGCGGTCCAACTCCGACGT 180
DB 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60
QY 181 AGCGCCCAACCCATCCCGAGCGCGCGAACCAGAGCGAGGTCTGGGCTCAGCCCGG 240
DB 61 ArgArgGlnProLysProArgAlaArgThrGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCTATATGGAAATGAGGCTGCGGTGGGAGGAGGTCTCTCCCG 300
DB 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGCTCTCGCGCTCGTGGGCGCAATGACCCCGCGCAGG 345
DB 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 2
US-08-290-665A-187
; Sequence 187, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
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; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 187:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: HK10
US-08-290-665A-187

Alignment Scores:
Pred. No.: 1,48e-49 Length: 191
Score: 609.00 Matches: 108
Percent Similarity: 96.52% Conservativeness: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 95.45% Indels: 0
DB: 2 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-290-665A-187 (1-191)
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DB 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrLysArgProGln 20
QY 61 GACGTTAAGTTCACAGCGCGGTCCAGATCGTTGGTGGAGTTTACGTGCTACCGAGG 120
DB 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrValLeuProArgArg 40
QY 121 GCGCCCAAGTTCGCGTGCAGTCCGAGACTTCGAGCGGTCCAACTCCGACGT 180
DB 41 GlyProArgLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgGly 60
QY 181 AGCGCCCAACCCATCCCGAGCGCGCGAACCAGAGCGAGGTCTGGGCTCAGCCCGG 240
DB 61 ArgArgGlnProLysProLysAlaArgSerGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCTATATGGAAATGAGGCTGCGGTGGGAGGAGGTCTCTCCCG 300
DB 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGCTCTCGCGCTCGTGGGCGCAATGACCCCGCGCAGG 345
DB 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 3
US-08-290-665A-188
; Sequence 188, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
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PCT-US95-10398-187
; Sequence 187, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 187:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: HK10
PCT-US95-10398-187

Alignment Scores:
Pred. No.: 1,48e-49 Length: 191
Score: 609.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 95.45% Indels: 0
DB: 5 Gaps: 0

US-09-873-224B-147 (1-346) x PCT-US95-10398-187 (1-191)

Qy 1 ATGAGCACATCTCTTAACCAAGAAAAACCAAGAAACACCAACCCGCGGCACAG 60
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrIleArgArgProGln 20
Qy 61 GACGTAGTTCCAGCGCGGTCAGATCTTGGTGGAGTTACGTCTACCGCAGG 120
Db 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrValLeuProArgArg 40
Qy 121 GGCCCCCAGTTGGGTGGTGGTCAGTCGCGCAGACTCCGAGCGGTCCCAACCTCGCAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60

PCT-US95-10398-188
; Sequence 188, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 188:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: SS2
PCT-US95-10398-188

Alignment Scores:
Pred. No.: 1,48e-49 Length: 191
Score: 609.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 95.45% Indels: 0
DB: 5 Gaps: 0

Qy 181 AGCGCCACACCCATCCCGAGCGCGCCGAAACCGAGGCGAGGTCTGGGTCTAGCCCGG 240
Db 61 ArgArgGlnProLysProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
Qy 241 TACCCTTGGCCCTATATAGGAATGAGGCTGCGGGTGGCGAGGTGGCTCTCCCG 300
Db 81 TyProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
Qy 301 CGGGCTCTCGCCGCTGCTGGGCCCCAAATGACCCCCGGCGCAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 6
PCT-US95-10398-188
; Sequence 188, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 188:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: SS2
PCT-US95-10398-188

Alignment Scores:
Pred. No.: 1,48e-49 Length: 191
Score: 609.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 95.45% Indels: 0
DB: 5 Gaps: 0

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US-09-873-224B-147 (1-346) x PCT-US95-10398-188 (1-191)
QY 1 ATGAGCACATTCCTTAACCAACAAGAAACCAACCAACCAACCAACCCGCGCACAG 60
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrIleArgArgProGln 20
QY 61 GACGTTAAGTTCCCGAGCGCGGTCCAGATCGTTGGTGAGTTTACGTGCTACCAACGAGG 120
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValTyrValLeuProArgArg 40
QY 121 GCGCCCGAGTTGGTGTGCGTGCAGTCCGGAAGACTTCCGAGCGGTCCCAACCTCGCAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 181 AGGCGCAACCCATCCCGAGCGCGCGCAACCGAGGCGGTCTGGGCTCAGCCCGG 240
Db 61 ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCTATATGGGAATGAGGCTGCGGCGGCGAGGCGGTCTCTGTCCCGG 300
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCCCGTCTGTGGGGCCCAAAATGACCCCGCGCGAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 7
PCT-US95-10398-190
; Sequence 190, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; INFORMATION FOR SEQ ID NO: 190:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid

; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: hominids
; INDIVIDUAL ISOLATE: DK12
; PCT-US95-10398-190
Alignment Scores:
Pred. No.: 1,48e-49 Length: 191
Score: 609.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 95.45% Indels: 0
DB: 5 Gaps: 0
US-09-873-224B-147 (1-346) x PCT-US95-10398-190 (1-191)
QY 1 ATGAGCACATTCCTTAACCAACAAGAAACCAACCAACCAACCAACCCGCGCACAG 60
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrIleArgArgProGln 20
QY 61 GACGTTAAGTTCCCGAGCGCGGTCCAGATCGTTGGTGAGTTTACGTGCTACCAACGAGG 120
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValTyrValLeuProArgArg 40
QY 121 GCGCCCGAGTTGGTGTGCGTGCAGTCCGGAAGACTTCCGAGCGGTCCCAACCTCGCAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 181 AGGCGCAACCCATCCCGAGCGCGCGCAACCGAGGCGGTCTGGGCTCAGCCCGG 240
Db 61 ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCTATATGGGAATGAGGCTGCGGCGGCGAGGCGGTCTCTGTCCCGG 300
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCCCGTCTGTGGGGCCCAAAATGACCCCGCGCGAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 8
US-08-230-665A-189
; Sequence 189, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
```


Score: 603.00 Matches: 106
Percent Similarity: 95.65% Conservative: 4
Best Local Similarity: 92.17% Mismatches: 5
Query Match: 94.51% Indels: 0
DB: 5 Gaps: 0

US-09-873-224B-147 (1-346) x PCT-US95-10398-192 (1-191)

QY 1 ATGAGCACACTTCCTAAACCAAGAAACCAAAAGAAACCAACCAACCCGCGCACAG 60
DB 1 MetSerThrAsnProLysProGlnArgLysThrLysArgSerGlnProArgProMet 20

QY 61 GACGTTAAGTTCCTCCAGCGCGGTCCAGATCGTGTGAGTTACGTCTACCAACGCGAGG 120
DB 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrLeuLeuProArgArg 40

QY 121 GCGCCCGAGTTGGTGTGGTGCAGTGGCGGACAGTTCGAGCGGTCCCAACCTCGCAGT 180
DB 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60

QY 181 AGGCGCCCAACCCATCCCGAGCGCGCGCAACCGAGGCGAGTCTCTGGGCTCAGCCCGG 240
DB 61 ArgArgGlnProLysProLysAlaArgSerGluGlyArgSerTrpAlaGlnProGly 80

QY 241 TACCCCTTGGCCCTATATGCGGAATGAGGCTGCGGGTGGCGAGGCGTCTCTGTCCCG 300
DB 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100

QY 301 CGCGGCTCTGCGCGTGTGGGGCCCAATGACCCCGCGGAGG 345
DB 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 14

PCT-US95-10398-193
; Sequence 193, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESS: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849

TELEX: 421792
; INFORMATION FOR SEQ ID NO: 193:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z1
PCT-US95-10398-193

Alignment Scores:
Pred. No.: 5,43e-49 Length: 191
Score: 603.00 Matches: 106
Percent Similarity: 95.65% Conservative: 4
Best Local Similarity: 92.17% Mismatches: 5
Query Match: 94.51% Indels: 0
DB: 5 Gaps: 0

US-09-873-224B-147 (1-346) x PCT-US95-10398-193 (1-191)

QY 1 ATGAGCACACTTCCTAAACCAAGAAACCAAAAGAAACCAACCAACCCGCGCACAG 60
DB 1 MetSerThrAsnProLysProGlnArgLysThrLysArgSerGlnProArgProMet 20

QY 61 GACGTTAAGTTCCTCCAGCGCGGTCCAGATCGTGTGAGTTACGTCTACCAACGCGAGG 120
DB 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrLeuLeuProArgArg 40

QY 121 GCGCCCGAGTGTGGTGTGGTGCAGTGGCGGACAGTTCGAGCGGTCCCAACCTCGCAGT 180
DB 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60

QY 181 AGGCGCCCAACCCATCCCGAGCGCGCGCAACCGAGGCGAGTCTCTGGGCTCAGCCCGG 240
DB 61 ArgArgGlnProLysProLysAlaArgSerGluGlyArgSerTrpAlaGlnProGly 80

QY 241 TACCCCTTGGCCCTATATGCGGAATGAGGCTGCGGGTGGCGAGGCGTCTCTGTCCCG 300
DB 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100

QY 301 CGCGGCTCTGCGCGTGTGGGGCCCAATGACCCCGCGGAGG 345
DB 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 15

PCT-US95-10398-195
; Sequence 195, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESS: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995

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; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 195:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z6
PCT-US95-10398-195

Alignment Scores:
Pred. No.: 5,43e-49 Length: 191
Score: 603.00 Matches: 106
Percent Similarity: 95.65% Conservative: 4
Best Local Similarity: 92.17% Mismatches: 5
Query Match: 94.51% Indels: 0
DB: 5 Gaps: 0

US-09-873-224B-147 (1-346) x PCT-US95-10398-195 (1-191)

Qy 1 ATGACACACTTCCTAAACACCAAGAAACCAACCAACCAACCAACCGGCCACAG 60
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20

Qy 61 GACGTTAAGTTCACGCGCGGTCCAGATCGTTGGTGAGTTTACGTCTACCCACGCGAG 120
Db 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrLeuLeuProArgArg 40

Qy 121 GCGCCCAAGTTGGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60

Qy 181 AGGCGCCCAACCATCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 240
Db 61 ArgArgGlnProIleProLysAlaArgSerGluGlyArgSerTrpAlaGlnProGly 80

Qy 241 TACCCCTTGGCCCTATATGGAATGAGGGCTGCGGGTGGGCGAGGGTGGCTCTGTCCCG 300
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100

Qy 301 CCGCGCTCTCGCCCTCGTGGGGCCCAATGACCCCGCGCGAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115
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Search completed: July 26, 2005, 07:34:49
Job time : 51 secs

GenCore version 5.1.6
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OM nucleic - protein search, using frame_plus_n2p model

Run on: July 26, 2005, 07:25:27 ; Search time 209.5 Seconds
(without alignments)
1284.881 Million cell updates/sec

Title: US-09-873-224B-147
Perfect score: 638
Sequence: 1 atgagcacactcttaaac.....aaatgaccccgccgagga 346

Scoring table:

BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 1741741 seqs, 388932284 residues

Total number of hits satisfying chosen parameters: 3483482

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-DB=Published Applications AA -GFMT=fastan -SUFFIX=rapb -MINMATCH=0.1
-LOOPEL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blsum62
-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100
-THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=pct -NORM=ext -HEAPSIZE=500 -MINLEN=0
-MAXLEN=2000000000 -USER=US09873224 @CIGN 1 1 124 @runat 22072005 171149 26560
-NCPU=6 -ICPU=3 -NO MAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100
-LONGLOG -DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Published Applications AA:
1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
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9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
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11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/2/pubpaa/US10D_PUBCOMB.pep.*
17: /cgn2_6/ptodata/2/pubpaa/US10E_PUBCOMB.pep.*
18: /cgn2_6/ptodata/2/pubpaa/US10A_NEW_PUB.pep.*
19: /cgn2_6/ptodata/2/pubpaa/US11A_PUBCOMB.pep.*
20: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep.*
21: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
22: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match % | Length | DB ID | Description |
|------------|-------|---------------|--------|-------|-------------------|
| 1 | 637 | 99.8 | 115 | 9 | US-09-851-138-50 |
| 2 | 637 | 99.8 | 115 | 10 | US-09-899-046-148 |
| 3 | 637 | 99.8 | 115 | 10 | US-09-878-281-148 |
| 4 | 602 | 94.4 | 120 | 16 | US-10-677-956-14 |
| 5 | 602 | 94.4 | 189 | 15 | US-10-450-649-9 |
| 6 | 600 | 94.0 | 130 | 14 | US-10-268-569-19 |
| 7 | 600 | 94.0 | 319 | 9 | US-09-851-138-12 |
| 8 | 600 | 94.0 | 319 | 15 | US-10-651-165-199 |
| 9 | 598 | 93.7 | 450 | 15 | US-10-651-165-181 |
| 10 | 598 | 93.7 | 2894 | 9 | US-09-941-611-23 |
| 11 | 598 | 93.7 | 2894 | 14 | US-10-044-995-23 |
| 12 | 597 | 93.6 | 2894 | 17 | US-10-822-871-23 |
| 13 | 597 | 93.6 | 120 | 16 | US-10-677-956-10 |
| 14 | 597 | 93.6 | 151 | 14 | US-10-292-129-14 |
| 15 | 597 | 93.6 | 182 | 9 | US-09-929-955-2 |
| 16 | 597 | 93.6 | 182 | 13 | US-10-104-966-2 |
| 17 | 597 | 93.6 | 182 | 15 | US-10-719-619-2 |
| 18 | 597 | 93.6 | 182 | 16 | US-10-817-591-2 |
| 19 | 597 | 93.6 | 235 | 15 | US-10-365-620-58 |
| 20 | 597 | 93.6 | 235 | 17 | US-10-912-969-60 |
| 21 | 597 | 93.6 | 249 | 15 | US-10-365-620-54 |
| 22 | 597 | 93.6 | 249 | 17 | US-10-912-969-56 |
| 23 | 597 | 93.6 | 319 | 15 | US-10-651-165-217 |
| 24 | 597 | 93.6 | 450 | 15 | US-10-651-165-179 |
| 25 | 597 | 93.6 | 450 | 15 | US-10-651-165-180 |
| 26 | 597 | 93.6 | 459 | 17 | US-10-365-620-60 |
| 27 | 597 | 93.6 | 459 | 17 | US-10-912-969-62 |
| 28 | 597 | 93.6 | 473 | 15 | US-10-913-171-41 |
| 29 | 597 | 93.6 | 473 | 17 | US-10-912-969-58 |
| 30 | 597 | 93.6 | 473 | 17 | US-10-913-171-39 |
| 31 | 597 | 93.6 | 473 | 17 | US-10-612-884-6 |
| 32 | 597 | 93.6 | 1892 | 17 | US-09-742-659-4 |
| 33 | 597 | 93.6 | 3011 | 9 | US-09-952-572-9 |
| 34 | 597 | 93.6 | 3011 | 9 | US-09-929-955-1 |
| 35 | 597 | 93.6 | 3011 | 9 | US-09-747-419-20 |
| 36 | 597 | 93.6 | 3011 | 9 | US-09-891-894-3 |
| 37 | 597 | 93.6 | 3011 | 13 | US-10-104-966-1 |
| 38 | 597 | 93.6 | 3011 | 14 | US-10-259-275-20 |
| 39 | 597 | 93.6 | 3011 | 14 | US-10-184-150-3 |
| 40 | 597 | 93.6 | 3011 | 14 | US-10-328-997-3 |
| 41 | 597 | 93.6 | 3011 | 15 | US-10-189-359-14 |
| 42 | 597 | 93.6 | 3011 | 15 | US-10-296-734-406 |
| 43 | 597 | 93.6 | 3011 | 15 | US-10-719-619-1 |
| 44 | 597 | 93.6 | 3011 | 15 | US-10-817-591-1 |
| 45 | 597 | 93.6 | 3011 | 16 | US-10-817-591-1 |

ALIGNMENTS

RESULT 1
US-09-851-138-50
; Sequence 50, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

RESULT 2

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;
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-878-281-148

Alignment Scores:
Pred. No.:      5,31e-47      Length:      115
Score:          637.00       Matches:    115
Percent Similarity: 100.00%   Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match:     99.84%      Indels:     0
DB:              10         Gaps:       0

US-09-873-224B-147 (1-346) x US-09-878-281-148 (1-115)
Qy 1 ATGAGCACATCTTCTTAACCAACAAGAAACAAAAGAAACACCAACCCGCCACAG 60
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn**ArgProGln 20
Qy 61 GAGTTAAGTTCCAGCGCGGTGCAGTCGTTGGTGAGTTACGTCCTACCAGCAG 120
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValTyValLeuProArgArg 40
Qy 121 GGCCCCCAGTTGGTGGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGT 180
Db 41 GlyProGlnLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
Qy 181 AGCGCCCAACCCATCCCAGCGCGCCGCAACCGAGCGGAGTCTTGGGCTCAGCCCGG 240
Db 61 ArgArgGlnProLysProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
Qy 241 TACCTTGGCCCTTATATGGGAATAGGCGTGGGCTGGGCTGGGCTGGGCTGGGCT 300
Db 81 TyrProTrpProLeuTyrgLyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100

RESULT 4
US-10-677-956-14
; Sequence 14, Application US/10677956
; Publication No. US20040214163A1
; GENERAL INFORMATION:
; APPLICANT: ZEBEDEE, SUZANNE
;             INCHAUSPE, GENEVIEVE
;             NASOFF, MARC S.
;             PRINCE, ALFRED M.
;             HELTING, TORSTEN B.
;             DREVIN, HAKAN
;             NUNN, MICHAEL F.
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR PRODUCING RECOMBINANT VIRAL ANTIGENS
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: James P. Hillman
; STREET: 45010 Pawnee Drive
; CITY: Fremont
; STATE: CA
; COUNTRY: USA
; ZIP: 94539
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 5.0 Dos Txt
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/677,956
; FILING DATE: 01-Oct-2003
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/931,855B
; FILING DATE: Sep 16, 1997
; APPLICATION NUMBER: US08/563,733
```

APPLICANT: Heinz, Franz X.
APPLICANT: Mandl, Christian
TITLE OF INVENTION: ATTENUATED LIVE VACCINE
FILE REFERENCE: U 014666-0
CURRENT APPLICATION NUMBER: US/10/450,649
CURRENT FILING DATE: 2003-06-16
PRIOR FILING DATE: 2002-02-11
PRIOR FILING DATE: 2002-02-11
PRIOR FILING DATE: 2001-02-21
NUMBER OF SEQ ID NOS: 9
SOFTWARE: PatentIn version 3.1
SEQ ID NO 9
TYPE: PRT
ORGANISM: Hepatitis C Virus 3
US-10-450-649-9

Alignment Scores:
Pred. No.: 6, 1e-44 Length: 189
Score: 602.00 Matches: 106
Percent Similarity: 96.49% Conservative: 4
Best Local Similarity: 92.98% Mismatches: 4
Query Match: 94.36% Indels: 0
DB: 15 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-450-649-9 (1-189)

QY 4 AGCACATTCCTTAACCAAGAAAAACCAAGAAAAACCAACCCGCCACAGGAC 63
Db 1 SerThrLeuProLysProGlnArgLysThrLysArgAsnThrLleArgArgProGlnAsp 20
QY 64 GTTAAGTTCCAGCGCGGGTGCAGATCGTTGGTGGAGTTACGTCTACCAAGCGGGC 123
Db 21 ValLysPheProGlyGlyGlnLeuValGlyGlyValTyValLeuProArgArgGly 40
QY 124 CCCAGTTGGGTGTCGTGCAGTGGCGCAAGACTCCGAGCGGTGCACACCTCGCAGTAGG 183
Db 41 ProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGlyArg 60
QY 184 CGCCAAACCATCCCGAGCGCGCGCAACCGAGGSCAGGTCTGGGTCTACGCCCGGTAC 243
Db 61 ArgGlnProLysProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGlyTyr 80
QY 244 CTTGGCCCTTATATGGAAAGAGGCTCGCGGTGGGAGGGTGGCTCTCTCCCGCGC 303
Db 81 ProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerProArg 100
QY 304 GGTCTCGCGGTGTCGTGGGCGCAATGACCCCGGCGCAGG 345
Db 101 GlySerArgProSerTrpGlyProAsnAspProArgArg 114

RESULT 6
US-10-268-569-19
Sequence 19, Application US/10268569
Publication No. US20030152965A1
GENERAL INFORMATION:
APPLICANT: Ortho-Clinical Diagnostics, Inc.
TITLE OF INVENTION: HCV Core Protein Sequences
FILE REFERENCE: CDS-0288
CURRENT APPLICATION NUMBER: US/10/268,569
CURRENT FILING DATE: 2002-10-10
PRIOR APPLICATION NUMBER: 60/347,303
PRIOR FILING DATE: 2001-11-11
NUMBER OF SEQ ID NOS: 19
SOFTWARE: PatentIn version 3.1
SEQ ID NO 19
LENGTH: 130
TYPE: PRT
ORGANISM: Hepatitis C virus
US-10-268-569-19

Alignment Scores:

Pred. No.: 8, 9e-44 Length: 130
Score: 600.00 Matches: 106
Percent Similarity: 94.78% Conservative: 3
Best Local Similarity: 92.17% Mismatches: 6
Query Match: 94.04% Indels: 0
DB: 14 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-268-569-19 (1-130)

QY 1 ATGAGCACATTCCTTAACCAAGAAAAACCAAGAAAAACCAACCCGCCACAG 60
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20
QY 61 GACGTTAAGTTCCAGCGCGGTGCAGATCGTTGGTGGAGTTTACGTCTACCAAGCGAGG 120
Db 21 AspValLysPheProGlyGlyGlnLeuValGlyGlyValTyValLeuLeuProArgArg 40
QY 121 GGCCCCCAGTTGGGTGTCGTGCAGTGCAGCAAGACTTCCGAGCGGTGCACACCTCGCAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 181 AGGCGCAACCCATCCCGAGCGCGCGCAACCGAGGCGAGTCTCTGGGTCTACGCCCGG 240
Db 61 ArgArgGlnProLysProLysAlaArgArgProGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCTTATATGGAAATGAGGCTGCGGGTGGCGAGGTCCTCTCTCCCGC 300
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCGGTGTCGTGGGCGCAATGACCCCGGCGCAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProThrAspProArgArg 115

RESULT 7

US-09-851-138-12
Sequence 12, Application US/09851138
Publication No. US20020183508A1
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/851,138
FILING DATE: 09-May-2001
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/836,075
FILING DATE: <Unknown>
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 319 amino acids


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; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 12:
US-09-851-138-12
Alignment Scores:
Pred. No.: 9,39e-44 Length: 319
Score: 600.00 Matches: 106
Percent Similarity: 94.78% Conservative: 3
Best Local Similarity: 92.17% Mismatches: 6
Query Match: 94.04% Indels: 0
DB: 9 Gaps: 0

US-09-873-224B-147 (1-346) x US-09-851-138-12 (1-319)
QY 1 ATGAGCACACTTCTTAACCAACAAAGAAAAACCAACCAACCAACCCGCGCACAG 60
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20
QY 61 GACGTTAAGTTCCACAGCGCGGTCCAGATCGTTGGTGAGTTTACGTGCTACCCAGCAGG 120
Db 21 AspValysPheProGlyGlyGlnIleValGlyValTyrLeuLeuProArgArg 40
QY 121 GCGCCCGGAGTGGGTGTCGTCAGTCGCGCAAGACTTCCGAGCGGTCCGAACCTCGCAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 181 AGGCGCCCAACCATCCACAGGCGCGCGCAACCGAGGCGAGTCTCGGGCTCAGCCCGGG 240
Db 61 ArgArgGlnProIleProLysAlaArgProGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTCGCGCCCTATATCGGAATGAGGCTCGCGGTGGCGAGGTGCTCTGTCGCCG 300
Db 81 TyrProTrpProLeuTyrAlaAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCGCTGTCGTCGGGGCCAAATGACCCCGCGCGAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115
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RESULT 8

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US-10-651-165-199
; Sequence 199, Application US/10651165
; Publication No. US2004004787A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651,165
; CURRENT FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 199
; LENGTH: 319
; TYPE: PRT
; ORGANISM: hepatitis C virus
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (152)..(152)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (159)..(159)
; OTHER INFORMATION: Xaa is any amino acid
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; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (163)..(163)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (164)..(164)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (165)..(165)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (166)..(166)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (167)..(167)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (170)..(170)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (174)..(174)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (175)..(175)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (180)..(180)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (226)..(226)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (317)..(317)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (318)..(318)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (319)..(319)
; OTHER INFORMATION: Xaa is any amino acid
; OTHER INFORMATION: Xaa is any amino acid
US-10-651-165-199
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Alignment Scores:
Pred. No.: 9,39e-44 Length: 319
Score: 600.00 Matches: 106
Percent Similarity: 94.78% Conservative: 3
Best Local Similarity: 92.17% Mismatches: 6
Query Match: 94.04% Indels: 0
DB: 15 Gaps: 0
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US-09-873-224B-147 (1-346) x US-10-651-165-199 (1-319)

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QY 1 ATGAGCACACTTCTTAACCAACAAAGAAAAACCAACCAACCAACCCGCGCACAG 60
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20
QY 61 GACGTTAAGTTCCACAGGCGCGGTCCAGATCGTTGGTGAGTTTACGTGCTACCCAGCAGG 120
Db 21 AspValysPheProGlyGlyGlnIleValGlyValTyrLeuLeuProArgArg 40
QY 121 GCGCCCGGAGTGGGTGTCGTCAGTCGCGCAAGACTTCCGAGCGGTCCGAACCTCGCAGT 180
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Db 41 GlyProArgLeuGlyValArgAlaThrArgIstSerGluArgSerGlnProArgGly 60
QY 181 AGGCGCCAAACCATCCCGAGCGCGCGAGAACCGAGGCGAGTCTCGGCTCAGCCCGG 240
Db 61 ArgArgGlnProIleProIleProIleProIleProIleProIleProIleProIle 80
QY 241 TACCCCTTGGCCCTATATGGGAATGAGGCTGCGGTCGCGGAGGCTGCTCTGTCGCCG 300
Db 81 TyrProItrpProLeuTyAlaasnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGCTCTCGCCCTCGTCTGGGGCCCAATGACCCCGCGCAGG 345
Db 101 ArgGlySerArgProSerTipGlyProAsnAspProArgArgArg 115

RESULT 9
US-10-651-165-181
; Sequence 181, Application US/10651165
; Publication No. US20040047877A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651,165
; PRIOR FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 181
; LENGTH: 450
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-651-165-181

Alignment Scores:
Pred. No.: 1,43e-43 Length: 450
Score: 598.00 Matches: 104
Percent Similarity: 94.78% Conservative: 5
Best Local Similarity: 90.43% Mismatches: 6
Query Match: 93.73% Indels: 0
DB: 15 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-651-165-181 (1-450)
QY 1 ATGAGCACACTTCCTAAACCAAAAGAAAAACCAAAAGAAACCAACCAACCCGCGCACAG 60
Db 1 MetSerThrIleProLysProGlnArgIstThrLysArgAsnThrAsnArgArgProGln 20
QY 61 GACGTTAGTTCCTCCAGCGCGGTCAGATCGTGTGAGTTAGTCTACCGCAGG 120
Db 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrLeuLeuProArgArg 40
QY 121 GGCCCGCCAGTGGGTGTGGTGCAGTGCAGCAAGACTTCGAGCGGTGCGCAACCTCGCAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgIstSerGluArgSerGlnProArgGly 60
QY 181 AGGCGCCAAACCATCCCGAGCGCGCGAGAACCGAGGCGAGTCTCGGCTCAGCCCGG 240
Db 61 ArgArgGlnProIleProLysValArgArgProGluGlyArgTrpAlaGlnProGly 80
QY 241 TACCCCTTGGCCCTATATGGGAATGAGGCTGCGGTCGCGGAGGCTGCTCTGTCGCCG 300
Db 81 TyrProItrpProLeuTyAlaasnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGCTCTCGCCCTCGTCTGGGGCCCAATGACCCCGCGCAGG 345
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Db 101 ArgGlySerArgProSerTipGlyProThrAspProArgArgArg 115

RESULT 10
US-09-941-611-23
; Sequence 23, Application US/09941611
; Patent No. US20020106640A1
; GENERAL INFORMATION:
; APPLICANT: DELEYS, ROBERT J
; APPLICANT: POLLETT, DIRK
; APPLICANT: MAERTENS, GEERT
; TITLE OF INVENTION: SYNTHETIC ANTIGENS FOR THE DETECTION OF
; ANTIBODIES TO HEPATITIS C VIRUS
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHUYE P. C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VA
; COUNTRY: USA
; ZIP: 22201
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/941,611
; FILING DATE: 30-Aug-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/391,671
; FILING DATE: 1995-02-21
; APPLICATION NUMBER: WO PCT/EP91/02409
; FILING DATE: 13-DEC-1991
; APPLICATION NUMBER: EP 90124241.2
; FILING DATE: 14-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: SADOFF, B.J.
; REGISTRATION NUMBER: 36,663
; REFERENCE/DOCKET NUMBER: 1487-5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 7038164000
; TELEFAX: 7038164100
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2894 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHEetical: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 23:
US-09-941-611-23

Alignment Scores:
Pred. No.: 1.6e-43 Length: 2894
Score: 598.00 Matches: 104
Percent Similarity: 94.78% Conservative: 5
Best Local Similarity: 90.43% Mismatches: 6
Query Match: 93.73% Indels: 0
DB: 9 Gaps: 0

US-09-873-224B-147 (1-346) x US-09-941-611-23 (1-2894)
QY 1 ATGAGCACACTTCCTAAACCAAAAGAAAAACCAAAAGAAACCAACCAACCCGCGCACAG 60
Db 1 MetSerThrIleProLysProGlnArgIstThrLysArgAsnThrAsnArgArgProGln 20
QY 61 GACGTTAGTTCCTCCAGCGCGGTCAGATCGTGTGAGTTAGTCTACCGCAGG 120
```



```
; FILING DATE: 14-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: SADOFF, B.J.
; REGISTRATION NUMBER: 36,663
; REFERENCE/DOCKET NUMBER: 1487-5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 7038164000
; TELEFAX: 7038164100
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2894 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHEetical: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 23:
US-10-822-871-23
Alignment Scores:
Pred. No.: 1.6e-43 Length: 2894
Score: 598.00 Matches: 104
Percent Similarity: 94.78% Conservative: 5
Best Local Similarity: 90.43% Mismatches: 6
Query Match: 93.73% Indels: 0
DB: 17 Gaps: 0
US-09-873-224B-147 (1-346) x US-10-822-871-23 (1-2894)
QY 1 ATGAGCACACTTCCTAAACCAAGAAACCAAAAGAAACCAACCAACCCGGCCACAG 60
DB 1 MetSerThrIleProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20
QY 61 GACGTTAAGTTCCACGGCGGTCAGATCGTTGGTGGAGTTTACGTCTACCAACGCAGG 120
DB 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyLeuLeuProArgArg 40
QY 121 GCGCCCAAGTTGGGTGTCGTGCGTGCAGTCCGAGACTTCCGAGCGTCCCAACCTCGCAGT 180
DB 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 181 AGGCGCCCAACCATCCCGAGCGCGCGCGAACCAGGAGCGAGTCTCGGCTCAGCCCGG 240
DB 61 ArgArgGlnProIleProLysValArgArgProGluGlyArgThrTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCCCTATATGGGAATGAGGCTCGCGGTGGGCGAGGTGCTCTCTGTCGCCG 300
DB 81 TyrProTrpProLeuTyGlyAsnGluGlyCysGlyTyrAlaGlyTyrLeuLeuSerPro 100
QY 301 CCGGCTCTCGCCCTCGTGGGGCCCAATGACCCCGCGCGAGG 345
DB 101 ArgGlySerArgProSerTrpGlyProThrAspProArgArgArg 115
RESULT 13
US-10-677-956-10
; Sequence 10, Application US/10677956
; Publication No. US20040214163A1
; GENERAL INFORMATION:
; APPLICANT: ZEBEDEE, SUZANNE
; INCHAUSPE, GENEVIEVE
; NASOFF, MARC S.
; PRINCE, ALFRED M.
; HELTING, TORSTEN B.
; DREVIN, HAKAN
; NUNN, MICHAEL F.
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR PRODUCING
; RECOMBINANT VIRAL ANTIGENS
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: James P. Hillman
; STREET: 45010 Pawnee Drive
; CITY: Fremont
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